

### **AEROSPACE GROUND EQUIPMENT (AGE)**

1. **Objective.** This Air National Guard Manpower Standard (ANGMS) quantifies the manpower required to accomplish the tasks described in the Work Center Description (WCD) for varying levels of workload in the AGE function of ANG flying units.

2. **Authority.** The AFR 66, 67, 127, and 144 series, ANGR 66 series, Air Force Technical Order Systems, and all applicable MAC, TAC, SAC, and ADTAC supplements contain command policy and procedural guidance for the AGE function. This ANGMS has been developed in accordance with procedures contained in AFR 25-5, Vol I, II, and III.

3. **Applicability.**

a. This manpower standard applies to all ANG Flying unit AGE functions powered support equipment only.

b. Units undergoing AFR 26-1, Cost Comparison studies will be exempt from standard application.

c. Units that undergo a Cost Comparison Study and remain in house may also be exempt from standard application.

d. This standard applies to peacetime operations only.

4. **Standard Data:**

a. **Classification.** Type II

b. **Approval Date.** 16 October 1989

c. **Man-Hour Data Source.** Operational Audit (Historical Record and Technical Estimate).

d. **Standard Man-Hour Equation.**  $Y = 178.7 + 13.80X$

e. **Workload Factors:**

(1) Title:  $X$  = Total Number of Equipment Maintained/Authorized.

(2) Definition: X = Total number of pieces of powered AGE authorized and, or fully maintained by the AGE function.

(3) Source: X = AGE Custodian Authorization/Custody Receipt Listing (CA/CRL) and Table of Allowance (TA). Add piece of powered AGE from other organizations CA/CRL for which the AGE function has total responsibility for maintenance.

5. **Application Instructions.** Apply this standard using the Standard Man-Hour Equation shown in paragraph 4d.

a. Substitute the reported workload factor into the man-hour equation for X.

b. Divide the resulting total man-hours by 145.3 to arrive at the number of required authorizations. (NOTE: Any fraction will be rounded up to the next whole number.)

c. On AF Form 1113, Standard Manpower Table, find the column in which the number of required authorizations falls; then read up and across the column to determine total manpower by AFSC (attachment 2).

6. **Statement of Conditions.** Normal hours of operation of this work center are 8 hours a day, 5 days per week. Exceptions are Willow Grove PA and Atlantic City NJ where duty hours are 16 hours a day, 5 days per week (two shifts) ANGB Buckley, CO duty hours are 10 hours a day, 4 days per week.

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1. Work Center Description
2. Standard Manpower Table

AEROSPACE GROUND EQUIPMENT (AGE)

WORK CENTER DESCRIPTION DIRECT:

1. MANAGEMENT:

1.1. MONITORS AGE TOW VEHICLE STATUS. Monitors AGE tow vehicle status to ensure that enough vehicles are in-commission to support demands for AGE.

1.2. MONITORS CANNOT DUPLICATE (CND) PROCEDURE. Monitors shop procedure with regard to identification, recording, and clearing CND discrepancy.

1.3. GATHERS MAINTENANCE PLAN DATA. Gathers necessary data and provides input to maintenance plan to ensure AGE maintenance is accomplished in a timely manner.

1.4. PARTICIPATES IN MAINTENANCE PLANNING. Participates in scheduled maintenance preplanning and weekly maintenance planning activity held by Plans, Scheduling, Production and Maintenance Control.

1.5. COORDINATES AGE-RELATED ACTIVITY:

1.5.1. COORDINATES WITH THE MAINTENANCE CONTROL SUPERVISOR. Establishes the quantity of AGE, vehicle, and special support equipment required to be in-commission based on mission requirement. Determines what type of powered AGE will require status monitoring.

1.5.2. COORDINATES WITH PRODUCTION SCHEDULING FUNCTION TO DETERMINE WORKLOAD. Coordinates with Plans, Scheduling, and Documentation; AGE Product Scheduler; and Depot Manager.

1.5.3. DETERMINES THE ADEQUACY OF ALLIED SHOP SUPPORT AND IDENTIFIES PROBLEM AREA. Resolves problem through maintenance supervision, materiel control, and/or shop chief.

1.6. MONITORS TOOL ISSUE AND CONDITION. Oversees consolidated tool kit (CTK) or tool room operation and ensures that timely inventory is taken.

1.6.1. PERFORMS TOOL KIT INVENTORY:

1.6.1.1. PERFORMS ANNUAL TOOL KIT INVENTORY.

1.6.1.2. PERFORMS DAILY TOOL KIT INVENTORY.

1.6.2. REVIEWS SUPPLY REGISTER/LOG. Checks and verifies supply order received and returned. Annotates log to reflect date items received and initial.

1.6.3. ORDERS PART AND TOOL. Researches documents for serial number, requisition number, part number, and completes request form.

1.7. MONITORS SUPPLY SUPPORT. Maintains and monitors support and bench stock operation.

1.8. REVIEWS MANNING REQUIREMENT. Conducts review of manpower authorization, personnel assignment, workload, and maintenance plan to ensure a continued balance between workload and shift work force.

1.9. REVIEWS SECURITY AND SAFETY PROCEDURES. Reviews security and safety procedure and ensures compliance.

1.10. MONITORS CANNIBALIZATION. Researches requirement for cannibalization of AGE.

1.11. REVIEWS/REVISES QUALIFIED PERSONNEL LIST. Reviews/Revises list authorizing personnel to perform production and in-process inspection, clear Red-X symbol, and certifies not-repairable-this-station (NRTS) action.

1.12. EVALUATES PERSONNEL AND MAINTENANCE ACTION. Evaluates maintenance performed and qualification of personnel through personal observation and inspection of maintenance operation.

1.13. MONITORS TECHNICAL DATA COMPLIANCE. Monitors compliance with the requirement to use technical data when maintaining assigned precision measurement equipment, industrial equipment, test equipment, and support equipment.

1.14. INSPECTS SEASONAL-TYPE EQUIPMENT. Inspects seasonal-type equipment to ensure proper preservation for storage.

1.15. MONITORS REPAIR CYCLE ASSET. Assists production control in managing repair cycle asset.

1.16. MONITORS AGE OPERATOR TRAINING:

1.16.1. MONITORS OPERATOR TRAINING CLASS. Monitors operator training class to ensure adequacy of presentation.

1.16.2. ESTABLISHES AGE TRAINING REQUIREMENT. Contacts Training Management to establish operator training determined by new equipment, new personnel, or when required by the Deputy Commander for Maintenance.

1.17. INSPECTS FACILITY:

1.17.1. INSPECTS FACILITY FOR ADEQUACY. Evaluates the use and adequacy of assigned facility. Identifies construction and self-help project requirement.

1.17.2. INSPECTS FOR FOREIGN OBJECTS. Inspects according to unit foreign object damage program and submits report.

1.18. INVESTIGATES ACCIDENT OR INCIDENT. Investigates accident or incident within the work center. Prepares required report and associated correspondence.

1.19. ENSURES DISPOSAL OF HAZARDOUS WASTE. Oversees disposal of oil, chemicals, and other hazardous waste.

1.20. RECEIVES AND ASSISTS VISITING OFFICIAL. Receives visitor, inspector, or official; assists visitor to accomplish purpose; and escorts visitor into restricted or controlled area.

1.21. PARTICIPATES IN INSPECTIONS:

1.21.1. ASSISTS IN MANAGEMENT EFFECTIVENESS INSPECTION.

1.21.2. ASSISTS IN OPERATIONAL READINESS INSPECTION (ORI).

1.21.3. PARTICIPATES IN SELF INSPECTION.

1.21.4. ASSISTS IN STAFF ASSISTANCE VISIT (SAV).

1.22. PERFORMS FUEL COMPUTATION. Computes unit issue fuel tank, reads gas fuel meter, observes filling of tank, and measures liquid in tank.

2. MOBILITY:

2.1. REVIEWS SELECTED PERSONNEL ROSTER. Reviews roster for AGE personnel selected for mobility/deployment.

2.2. PREPARES EQUIPMENT. Prepares mobility equipment for shipping. Drains fuel, oil, hydraulic, and water to level specified for shipping.

2.3. ENSURES READINESS. Reviews mobility/deployment plan and ensures all requirements are met.

2.4. MONITORS MOBILITY ACTIVITY. Oversees prompt and timely movement of equipment in accordance with (IAW) specified mobility/deployment plans.

2.5. MONITORS 30-DAY LEVEL BENCH STOCK.

2.6. ENSURES CONCLUSION OF MOBILITY. Ensures tag removal and servicing of mobility equipment for placement to ready line or flight line. Completes necessary documentation.

3. PICK-UP AND DELIVERY:

3.1. PICKS UP AND DELIVERS EQUIPMENT (AIRCRAFT MAINTENANCE):

3.1.1. RECEIVES NOTIFICATION FOR PICK-UP AND DELIVERY.

3.1.2. POSITIONS TOW VEHICLE AND CONNECTS EQUIPMENT.

3.1.3. TRAVELS TO AND FROM DELIVERY/PICK-UP POINT.

3.1.4. DISCONNECTS EQUIPMENT.

3.2. PICKS UP AND DELIVERS EQUIPMENT (OTHER THAN AIRCRAFT MAINTENANCE):

3.2.1. RECEIVES NOTIFICATION FOR PICK-UP AND DELIVERY.

3.2.2. POSITIONS TOW VEHICLE AND CONNECTS EQUIPMENT.

3.2.3. TRAVELS TO AND FROM DELIVERY/PICK-UP POINT.

3.2.4. DISCONNECTS EQUIPMENT.

4. INSPECTIONS, REPAIR, AND SERVICE:

4.1. PERFORMS AIR CONDITION (ELECTRIC) MOTOR DRIVEN INSPECTION (AM32C-4):

4.1.1. INSPECTS UNIT. Checks condition that would affect serviceability of the unit and reviews Air Force Technical Order (AFTO) Forms for completeness.

4.1.2. INSPECTS TRAILER AND HOUSING. Checks access door, latch, mobile gear box, hand brake, tow bar, center steering arm, tire inflation, and tire rod for operability.

4.1.3. INSPECTS ELECTRICAL SYSTEM. Checks motor primer mover, motor self-mobility, battery electrolyte level, external power cable, charging circuit, starter switch, transformer, relay circuit breaker, fuse, fuse block, and electrical wire harness for corrosion or deterioration.

4.1.4. INSPECTS REFRIGERATION SYSTEM. Checks evaporator, condenser, valve, line, line fitting, and compressor for deterioration.

4.1.5. INSPECTS AIR CIRCULATION. Checks blower drive belt, blower, condenser fan drive belt, condenser fan, condenser fan motor, blower transfer duct, and air delivery duct for damage. Cleans and replaces air filter to prevent clogging.

4.1.6. PERFORMS OPERATIONAL CHECK. Reconnects battery cable and checks evaporator blower and equipment located in other buildings for serviceability.

4.1.7. LUBRICATES UNIT. Oils hinge, compressor, latch, brake linkage, control slide, tow bar, tow bar mount, steering arm wheel, and brake operating lever. Greases fitting, front undercarriage, king pin, drawbar retainer, fitting rear under carriage, drive shaft, pillow block fitting, pintle hook pin and

pawl, tie rod end, drive shaft, fifth wheel center plate, and condenser fan shaft operation. Lubricates chassis fitting, mobility motor, spring, control cable, blower, gear end oil fill, program motor, damper valve motor, air supply and bypass damper to diminish friction and damage. Checks differential oil level, self mobility gear case oil level, and compressor oil to ensure proper amount of lubricant. Reconnects control valve for proper operation.

#### 4.1.8. PERFORMS SPECIAL INSPECTION:

##### 4.1.8.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

Inspects brake drum, brake shoe, axle spindle for damage. Repacks wheel bearing to prevent friction damage.

##### 4.1.8.2. LUBRICATES ELECTRIC MOTOR BALL BEARING.

##### 4.1.8.3. REPLACES MECHANICAL FILTER HEAD AND ELEMENT (2 YEARS).

4.1.9. PERFORMS UNSCHEDULED MAINTENANCE. Performs unscheduled maintenance to correct a discrepancy discovered during operation. Tags and prepares all repairable components that have been identified for repair cycle routing.

4.1.9.1. PERFORMS MINOR MAINTENANCE. Determines appropriate action and obtains required part when necessary. Performs operational check and prepares documentation.

4.1.9.2. PERFORMS MAJOR MAINTENANCE. Performs maintenance in accordance with technical order (TO) overhaul instruction. Removes, replaces, installs, uncrates/crates, repairs, and performs general maintenance on major component.

4.1.10. PERFORMS ACCEPTANCE INSPECTION AND TEST. Accomplishes special inspection and test on new equipment. Performs related corrosion control to prevent corroding. Tags and prepares all repairable components identified for repair cycle routing.

4.1.11. ACCOMPLISHES TIME COMPLIANCE TECHNICAL ORDER (TCTO). Accomplishes TCTO in accordance with specified time limit. Cleans, tags, and prepares all repairable components identified for repair. Performs operational check and prepares documentation for unit.

4.1.12. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT. Inspects and takes required action for surface preparation, effective application of preservative, evidence of corrosion, shortage of part or accessory, incorrect tire pressure, lubricant leakage, malfunctioning electrical component, malfunctioning fuel system, valve mechanism, cylinder, and crankcase interior for proper storage/shipment. Prepares, processes, and documents necessary form, reaccomplishes missing form, and annotates damage received during shipment.

4.1.13. PERFORMS CORROSION CONTROL. Paints, applies effective paint or tape, disassembles, and assembles unit for major painting. Washes and cleans unit to control corrosion.

4.1.14. PERFORMS SERVICE INSPECTION. Reviews form; services unit; checks serviceability of exterior unit/panel; starts unit, services parking brake mechanism instrument, lift control valve, table direct control valve; and checks engine and neutral safety switch for malfunction and performance.

4.2. PERFORMS AIR CONDITIONER (ELECTRIC) MOTOR DRIVEN INSPECTION (A/M32C-5):

4.2.1. INSPECTS UNIT.

4.2.2. INSPECTS TRAILER AND HOUSING.

4.2.3. INSPECTS ELECTRICAL SYSTEM.

4.2.4. INSPECTS REFRIGERATION SYSTEM.

4.2.5. INSPECTS AIR CIRCULATION.

4.2.6. PERFORMS OPERATIONAL CHECK.

4.2.7. LUBRICATES UNIT.

4.2.8. PERFORMS SPECIAL INSPECTION:

4.2.8.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.2.8.2. LUBRICATES ELECTRIC MOTOR BALL BEARING.

4.2.8.3. REPLACES MECHANICAL FILTER HEAD AND ELEMENT.

4.2.9. PERFORMS UNSCHEDULED MAINTENANCE:

4.2.9.1. PERFORMS MINOR MAINTENANCE.

4.2.9.2. PERFORMS MAJOR MAINTENANCE.

4.2.10. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.2.11. ACCOMPLISHES TCTO.

4.2.12. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.

4.2.13. PERFORMS CORROSION CONTROL.

4.2.14. PERFORMS SERVICE INSPECTION.

4.3. PERFORMS AIR CONDITIONER (ELECTRIC) MOTOR DRIVEN INSPECTION (MAE-4):

4.3.1. INSPECTS UNIT.

- 4.3.2. INSPECTS TRAILER AND HOUSING.
- 4.3.3. INSPECTS ELECTRICAL SYSTEM.
- 4.3.4. INSPECTS REFRIGERATION SYSTEM.
- 4.3.5. INSPECTS AIR CIRCULATION.
- 4.3.6. PERFORMS OPERATIONAL CHECK.
- 4.3.7. LUBRICATES UNIT.
- 4.3.8. PERFORMS SPECIAL INSPECTION:
  - 4.3.8.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
  - 4.3.8.2. LUBRICATES ELECTRIC MOTOR BALL BEARING.
  - 4.3.8.3. REPLACES MECHANICAL FILTER HEAD AND ELEMENT.
- 4.3.9. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.3.9.1. PERFORMS MINOR MAINTENANCE.
  - 4.3.9.2. PERFORMS MAJOR MAINTENANCE.
- 4.3.10. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.3.11. ACCOMPLISHES TCTO.
- 4.3.12. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.3.13. PERFORMS CORROSION CONTROL.
- 4.3.14. PERFORMS SERVICE INSPECTION.
- 4.4. PERFORMS AIR CONDITIONER (GAS) INSPECTION (MA-3):
  - 4.4.1. INSPECTS UNIT.
  - 4.4.2. INSPECTS TRAILER AND HOUSING. Inspects door, door latch, mobile gear box, hand brake, brake system, tow bar, low bar steering arm, tie rod, tire, and lug nut condition.
  - 4.4.3. INSPECTS RUNNING GEAR ASSEMBLY. Inspects spring, shock, u-bolt, all attaching hardware, skid plate, compressor mounting pad, cross framework, and engine mount cross frame condition.
  - 4.4.4. INSPECTS ENGINE. Cleans and replaces filter/element; inspects exhaust system and engine mount; checks engine gauge, emergency shutdown cable, and variable speed mechanical governor condition.
    - 4.4.4.1. INSPECTS ENGINE FUEL SYSTEM. Checks fuel tank, fuel tank line, and fuel tank fitting; cleans or replaces fuel filter element; checks fuel pump, carburetor, throttle assembly, choke

assembly, air cleaner, and air system condition.

4.4.4.2. INSPECTS ENGINE COOLING SYSTEM. Inspects radiator, belt, and coolant hose for damage.

4.4.5. INSPECTS ELECTRICAL SYSTEM. Inspects wiring, regulator shock mount, fuse, fuse holder, switch, battery, battery compartment, generator/alternator drive belt, and relay for corrosion.

4.4.6. INSPECTS REFRIGERATION SYSTEM. Inspects drive coupling, clutch assembly slip ring and brush, belt, evaporator, condenser, valve, line, line fitting, compressor, power take-off, clutch adjustment, refrigeration gauge, and indicator for proper operation.

4.4.7. INSPECTS AIR CIRCULATION SYSTEM. Inspects blower drive belt, condenser fan drive belt, air circulation blower drive belt, air circulation blower, air blower filter, transfer duct, conditioned air delivery duct, blower wheel, fan, pulley, drive shaft, bearing security/condition, control cable, fan, blower sheave alignment, pneumatic system line, valve, compressor starter, hose reel, and reservoir tank for damage.

4.4.8. PERFORMS OPERATIONAL CHECK. Checks compressor sight gauge, oil line, coolant line, and fuel system performance.

4.4.9. LUBRICATES UNIT. Drains and refills engine crankcase; checks compressor oil level and differential; greases king pin, compressor drive shaft bearing, condenser fan motor, tie rod end fitting, center bar, throttle control and choke; oils hinge latch, tow bar pin retainer, pintle hook, pin, pin pawl, brake damper linkage; and lubricates interlock switch bolt to prevent excess friction wear.

4.4.10. PERFORMS SPECIAL INSPECTION:

4.4.10.1. INSPECTS OR INSTALLS WHEEL BEARING AND BRAKE.

4.4.10.2. CHECKS MOBILITY GEAR CASE AND DIFFERENTIAL.

4.4.11. PERFORMS UNSCHEDULED MAINTENANCE:

4.4.11.1. PERFORMS MINOR MAINTENANCE.

4.4.11.2. PERFORMS MAJOR MAINTENANCE.

4.4.12. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.4.13. ACCOMPLISHES TCTO.

4.4.14. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.

4.4.15. PERFORMS CORROSION CONTROL.

4.4.16. PERFORMS SERVICE INSPECTION.

## 4.4.17. REFUELS UNIT.

## 4.5. PERFORMS AIR CONDITIONER (DIESEL) INSPECTION (MA-3D):

## 4.5.1. INSPECTS UNIT.

4.5.2. INSPECTS TRAILER AND HOUSING. Checks condition that affect serviceability of door, door latch, mobility bearing box, hand brake, brake system, tow bar, steering arm, tie rod, tire, and lug nut for damage or corrosion.

4.5.3. INSPECTS RUNNING GEAR ASSEMBLY. Inspects spring shock, u-bolt, and all attaching hardware, skid plate, compressor mounting pad, cross framework, and engine mount cross frame assembly for damage.

4.5.4. INSPECTS ENGINE. Cleans/replaces filter or element; inspects exhaust system and engine mount; checks governor assembly, engine gauge, emergency shutdown cable, and variable speed mechanical governor to prevent damage.

4.5.4.1. INSPECTS, CLEANS, AND REPLACES ENGINE FUEL SYSTEM. Checks fuel tank, line and fitting, fuel pump, carburetor, throttle, choke assembly, air cleaner, and air system for damage.

4.5.4.2. INSPECTS ENGINE COOLING SYSTEM. Inspects belt, radiator, and coolant hose for wear.

4.5.5. INSPECTS ELECTRICAL SYSTEM. Inspects wiring, regulator shock mount, fuse, fuse holder, switch, battery, battery compartment, generator/alternator drive belt, mount, and relay for corrosion.

4.5.6. INSPECTS REFRIGERATION SYSTEM. Inspects drive coupling, clutch assembly slip ring and brush, belt, evaporator, condenser, valve, line fitting, compressor, power take-off, clutch adjustment, refrigeration gauge, and indicator for wear.

4.5.7. INSPECTS AIR CIRCULATION SYSTEM. Inspects blower drive belt, air circulation blower, air flow filter, transfer duct, conditioned air delivery duct, blower wheel, fan, pulley, drive shaft, bearing security/condition, control cable, fan, blower sheave alignment, and pneumatic system line, valve, compressor, starter, hose reel, and reservoir tank for serviceability.

4.5.8. PERFORMS OPERATIONAL CHECK. Checks compressor sight gauge, oil, coolant line and fuel system operation.

4.5.9. LUBRICATES UNIT. Drains and refills engine crankcase; checks compressor oil level, differential, hinge and latch; greases shackle, king pin, compressor unloader CAM, driver belt, idler bearing, blower shaft bearing, compressor drive shaft bearing, condenser fan motor, tie rod end fitting, center bar throttle control and choke; lubricates interlock switch bolt;

cleans and repacks mobility drive; and oils hinge, latch, towbar pin, retainer, pintle hook, pin, pin pawl, brake linkage, alternator bearing hinge cap, motor linkage, and damper linkage to prevent deterioration.

4.5.10. PERFORMS SPECIAL INSPECTION:

4.5.10.1. LUBRICATES WHEEL BEARING.

4.5.10.2. INSPECTS BRAKE INSTALLATION.

4.5.10.3. CHECKS MOBILITY GEAR CASE.

4.5.10.4. CHECKS DIFFERENTIAL CASE.

4.5.11. PERFORMS UNSCHEDULED MAINTENANCE:

4.5.11.1. PERFORMS MINOR MAINTENANCE.

4.5.11.2. PERFORMS MAJOR MAINTENANCE.

4.5.12. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.5.13. ACCOMPLISHES TCTO.

4.5.14. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.

4.5.15. PERFORMS CORROSION CONTROL.

4.5.16. PERFORMS SERVICE INSPECTION.

4.5.17. REFUELS UNIT.

4.6. PERFORMS AIR CONDITIONER-BLEED AIR DRIVEN INSPECTION (A/M32C-10/B/C):

4.6.1. INSPECTS UNIT.

4.6.2. INSPECTS TRAILER AND HOUSING. Checks hand brake, towbar, tire inflation and wheel and tire assembly for deterioration.

4.6.3. INSPECTS INSTRUMENT AND CONTROL. Checks air pressure regulator, air flow gauge, air pressure gauge, discharge temperature gauge, elapsed time indicator, manual control, relief pressure gauge, and relief pressure control valve for damage.

4.6.4. INSPECTS AIR CYCLE SYSTEM. Changes oil and cleans filter; bleeds turbine duct; checks heat exchanger, Ambinet air filter, moisture line filter, freedom and movement economy valve, Neoprene duct connection, temperature control valve, flow control valve, air conditioned duct, Serva air duct, Sram air duct, thermometer, air cycle machine, low temperature controller, low temperature supply pressure gauge, low temperature output pressure gauge, high temperature controller,

high temperature supply pressure gauge, high temperature output pressure gauge, and rupture disc; and installs and replaces attenuator acoustical and coolant agent/water separator for wear and damage.

4.6.5. PERFORMS OPERATIONAL CHECK. Checks unit operation and lubricates door and door latch to prevent corrosion.

4.6.6. LUBRICATES UNIT. Drains and refills air cycle machine; greases front wheel and pintle hook; and lubricates flow control valve and brush temperature control valve to prevent friction wear.

4.6.7. PERFORMS SPECIAL INSPECTION:

4.6.7.1. LUBRICATES WHEEL BEARING.

4.6.7.2. CHECKS BRAKE INSTALLATION. Checks wheel bearing, hub change, brake drum, brake shoe, and axle spindle wear.

4.6.8. PERFORMS UNSCHEDULED MAINTENANCE:

4.6.8.1. PERFORMS MINOR MAINTENANCE.

4.6.8.2. PERFORMS MAJOR MAINTENANCE.

4.6.9. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.6.10. ACCOMPLISHES TCTO.

4.6.11. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.

4.6.12. PERFORMS CORROSION CONTROL.

4.6.13. PERFORMS SERVICE INSPECTION.

4.7. PERFORMS HYDRAULIC TEST STAND (ELECTRIC) INSPECTION (A/M275-2/2A):

4.7.1. INSPECTS UNIT.

4.7.2. INSPECTS TRAILER AND HOUSING. Inspects door latch, tow bar assembly, undercarriage spring, u-bolt, tie rod, steering mechanism, axle, brake linkage, tire and tire pressure, bearing, and hand brake for damage.

4.7.3. INSPECTS HIGH PRESSURE SYSTEM. Inspects for crack, leak, and other defect in tubing assembly, relief valve, manifold block, pressure gauge, regulator, sample valve, flexible hose, high pressure hydraulic pump, and high pressure filter.

4.7.4. INSPECTS HYDRAULIC FLUID. Checks hydraulic fluid for contamination; drains contaminated fluid; refills system; and opens reservoir valve for excess drainage.

4.7.5. INSPECTS FILL AND RETURN SYSTEM. Inspects for crack, leak, and other defect in tubing assembly, relief valve, pump, fill valve, duplex gauge, and flowmeter for deterioration.

4.7.6. SERVICES FILTER. Changes filter element and seal in accordance with TO.

4.7.7. INSPECTS LOW PRESSURE SYSTEM. Inspects for crack, leak, and other defect in tubing, hose assembly, bleed valve, pump, flowmeter/low sensor, low pressure filter, and compound gauge.

4.7.8. INSPECTS COOLING SYSTEM. Inspects for crack, leak, and other defect in tubing assembly, fan, belt, cooler assembly fan drive motor, fan drive pump, and fan drive shaft.

4.7.9. INSPECTS ELECTRICAL SYSTEM. Inspects for crack, leak, and other defect in magnetic starter, transformer, capaciator, resistor, rectifier, relay, panel light, fill motor, cooling fan motor, tachometer, circuit breaker, electrical system switch, conduit, and connector.

4.7.10. PERFORMS OPERATIONAL CHECK. Performs operational check in accordance with applicable TO. Checks relief valve volume control, light, and instrument for operation and checks hose for dust.

4.7.11. LUBRICATES UNIT. Greases steering tie rod, pintle hook, front and rear axle, axle suspension brace, tow bar pin, tow bar hinge point, tow bar pivot point, king pin, spring shackle, wheel spindle, and suspension brake; and oils axle bar pivot, parking brake lever, brake linkage, canopy hinge, bar, flow indicator quadrant pivot, drawbar pin, and other miscellaneous hardware to lessen friction.

4.7.12. PERFORMS SPECIAL INSPECTION:

4.7.12.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.7.12.2. CHECKS BRAKE DRUM AND SHOE.

4.7.12.3. CHECKS AXLE SPINDLE.

4.7.13. PERFORMS UNSCHEDULED MAINTENANCE:

4.7.13.1. PERFORMS MINOR MAINTENANCE.

4.7.13.2. PERFORMS MAJOR MAINTENANCE.

4.7.14. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.7.15. ACCOMPLISHES TCTO.

4.7.16. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.

4.7.17. PERFORMS CORROSION CONTROL.

4.7.18. PERFORMS SERVICE INSPECTION.

4.8. PERFORMS HYDRAULIC TEST STAND (ELECTRIC) INSPECTION (MK-3/3A):

4.8.1. INSPECTS UNIT.

4.8.2. INSPECTS TRAILER AND HOUSING.

4.8.3. INSPECTS HIGH PRESSURE SYSTEM.

4.8.4. INSPECTS HYDRAULIC FLUID.

4.8.5. INSPECTS FILL AND RETURN SYSTEM.

4.8.6. SERVICES FILTER.

4.8.7. INSPECTS LOW PRESSURE SYSTEM.

4.8.8. INSPECTS COOLING SYSTEM.

4.8.9. INSPECTS ELECTRICAL SYSTEM.

4.8.10. PERFORMS OPERATIONAL CHECK.

4.8.11. LUBRICATES UNIT.

4.8.12. PERFORMS SPECIAL INSPECTION:

4.8.12.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.8.12.2. CHECKS BRAKE DRUM AND SHOE.

4.8.12.3. CHECKS AXLE SPINDLE.

4.8.13. PERFORMS SPECIAL INSPECTION:

4.8.13.1. PERFORMS MINOR MAINTENANCE.

4.8.13.2. PERFORMS MAJOR MAINTENANCE.

4.8.14. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.8.15. ACCOMPLISHES TCTO.

4.8.16. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.

4.8.17. PERFORMS CORROSION CONTROL.

4.8.18. PERFORMS SERVICE INSPECTION.

4.9. PERFORMS HYDRAULIC TEST STAND (ELECTRIC) INSPECTION (MK-1):

4.9.1. INSPECTS UNIT.

- 4.9.2. INSPECTS TRAILER AND HOUSING.
- 4.9.3. INSPECTS HIGH PRESSURE SYSTEM.
- 4.9.4. INSPECTS HYDRAULIC FLUID.
- 4.9.5. INSPECTS FILL AND RETURN SYSTEM.
- 4.9.6. SERVICES FILTER.
- 4.9.7. INSPECTS LOW PRESSURE SYSTEM.
- 4.9.8. INSPECTS COOLING SYSTEM.
- 4.9.9. INSPECTS ELECTRICAL SYSTEM.
- 4.9.10. PERFORMS OPERATIONAL CHECK.
- 4.9.11. LUBRICATES UNIT.
- 4.9.12. PERFORMS SPECIAL INSPECTION:
  - 4.9.12.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
  - 4.9.12.2. CHECKS BRAKE DRUM AND SHOE.
  - 4.9.12.3. CHECKS AXLE SPINDLE.
- 4.9.13. PERFORMS UNSCHEDULE MAINTENANCE:
  - 4.9.13.1. PERFORMS MINOR MAINTENANCE.
  - 4.9.13.2. PERFORMS MAJOR MAINTENANCE.
- 4.9.14. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.9.15. ACCOMPLISHES TCTO.
- 4.9.16. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.9.17. PERFORMS CORROSION CONTROL.
- 4.9.18. PERFORMS SERVICE INSPECTION.
- 4.10. PERFORMS HYDRAULIC TEST STAND (ELECTRIC) INSPECTION (AM27T-1):
  - 4.10.1. INSPECTS UNIT.
  - 4.10.2. INSPECTS TRAILER AND HOUSING.
  - 4.10.3. INSPECTS HIGH PRESSURE SYSTEM.
  - 4.10.4. INSPECTS HYDRAULIC FLUID.

- 4.10.5. INSPECTS FILL AND RETURN SYSTEM.
- 4.10.6. SERVICES FILTER.
- 4.10.7. INSPECTS LOW PRESSURE SYSTEM.
- 4.10.8. INSPECTS COOLING SYSTEM.
- 4.10.9. INSPECTS ELECTRICAL SYSTEM.
- 4.10.10. PERFORMS OPERATIONAL CHECK.
- 4.10.11. LUBRICATES UNIT.
- 4.10.12. PERFORMS SPECIAL INSPECTION.
- 4.10.13. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.10.13.1. PERFORMS MINOR MAINTENANCE.
  - 4.10.13.2. PERFORMS MAJOR MAINTENANCE.
- 4.10.14. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.10.15. ACCOMPLISHES TCTO.
- 4.10.16. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.10.17. PERFORMS CORROSION CONTROL.
- 4.10.18. PERFORMS SERVICE INSPECTION.
- 4.11. PERFORMS HYDRAULIC TEST STAND (GAS) INSPECTION (MJ-1):
  - 4.11.1. INSPECTS UNIT.
  - 4.11.2. INSPECTS TRAILER AND HOUSING. Inspects for crack, tear, corrosion and other defect in housing assembly, hinged door, door latch, tow bar assembly, and undercarriage.
  - 4.11.3. INSPECTS HIGH PRESSURE SYSTEM. Inspects for crack, leak, and other defect in tubing assembly, relief valve, manifold block, pressure gauge, regulator, sample valve, flexible hose, high pressure hydraulic pump, and high pressure filter.
  - 4.11.4. INSPECTS HYDRAULIC FLUID. Checks hydraulic fluid for contamination; opens reservoir valve; and drains contaminated fluid by flushing system, cleaning reservoir, changing filter, and refills systems.
  - 4.11.5. INSPECTS FILL AND RETURN SYSTEM. Inspects for crack, leak, defect in tubing assembly, fill valve, relief valve, compound gauge, and flow meter.
  - 4.11.6. MAINTAINS FILTER. Changes filter element and seal to prevent wear.

4.11.7. INSPECTS LOW PRESSURE SYSTEM. Inspects for crack, leak, and other defect in tubing assembly, fan, fan belt, cooler assembly fan drive motor, fan drive pump, and fan drive shaft.

4.11.8. INSPECTS COOLING SYSTEM. Inspects for crack, leak, and other defect in tubing assembly, fan, fan belt, cooler assembly, fan drive motor, fan drive pump, and fan drive shaft.

4.11.9. INSPECTS ELECTRICAL SYSTEM. Inspects for crack, leak, and other defects in light and panel, fill motor, air compressor motor, cooling fan motor, tachometer, and switch.

4.11.10. INSPECTS GENERATOR/ALTERNATOR. Checks component of generator/alternator for wear, security, proper setting, mounting of commutator/slip ring, brush spring/holder, and brush.

4.11.11. INSPECTS BATTERY. Checks battery terminal for charging and corrosion.

4.11.12. INSPECTS FUSE AND HOLDER. Checks fuse and fuse holder for proper use and adjustment.

4.11.13. INSPECTS ENGINE ASSEMBLY. Checks component of engine assembly for leak, security and damage, cowling for security of exhaust system. Checks inlet filter, carburetor, fuel pump, fuel filter, fuel tank, spark plug, ignition harness, and oil filter for wear and damage.

4.11.14. PERFORMS OPERATIONAL CHECK. Checks light, instrument panel, hydraulic system, external hose, and manifold thermoswitch for operability.

4.11.15. LUBRICATES UNIT. Lubricates item during periodic inspection unless otherwise specified. Drains and refills crankcase; lubricates main gear box; greases hydraulic pump control wheel spindle, drive shaft, steering tie rod, spring shackle, tow bar pivot point, trailer assembly; oils axle suspension brace, tow bar pin, latch and linkage, brake linkage, starter, housing, and door assembly; and packs drive gear and cable to prevent friction wear.

4.11.16. PERFORMS SPECIAL INSPECTION:

4.11.16.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.11.16.2. CHECKS AXLE SPINDLE.

4.11.16.3. LUBRICATES ELECTRIC MOTOR BEARING.

4.11.16.4. DRAINS AND REFILLS MAIN GEAR BOX.

4.11.17. PERFORMS UNSCHEDULED MAINTENANCE:

4.11.17.1. PERFORMS MINOR MAINTENANCE.

- 4.11.17.2. PERFORMS MAJOR MAINTENANCE.
- 4.11.18. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.11.19. ACCOMPLISHES TCTO.
- 4.11.20. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.11.21. PERFORMS CORROSION CONTROL.
- 4.11.22. PERFORMS SERVICE INSPECTION.
- 4.11.23. REFUELS UNIT.
- 4.12. PERFORMS HYDRAULIC TEST STAND (GAS) INSPECTION (MJ-2A):
  - 4.12.1. INSPECTS UNIT.
  - 4.12.2. INSPECTS TRAILER AND HOUSING.
  - 4.12.3. INSPECTS HIGH PRESSURE SYSTEM.
  - 4.12.4. INSPECTS HYDRAULIC FLUID.
  - 4.12.5. INSPECTS FILL AND RETURN SYSTEM.
  - 4.12.6. MAINTAINS FILTER.
  - 4.12.7. INSPECTS LOW PRESSURE SYSTEM.
  - 4.12.8. INSPECTS COOLING SYSTEM.
  - 4.12.9. INSPECTS ELECTRICAL SYSTEM.
  - 4.12.10. INSPECTS GENERATOR/ALTERNATOR.
  - 4.12.11. INSPECTS BATTERY.
  - 4.12.12. INSPECTS FUSE AND HOLDER.
  - 4.12.13. INSPECTS ENGINE ASSEMBLY.
  - 4.12.14. PERFORMS OPERATIONAL CHECK.
  - 4.12.15. LUBRICATES UNIT.
  - 4.12.16. PERFORMS SPECIAL INSPECTION:
    - 4.12.16.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
    - 4.12.16.2. CHECKS AXLE SPINDLE.
    - 4.12.16.3. LUBRICATES ELECTRIC MOTOR BEARING.
    - 4.12.16.4. DRAINS AND REFILLS MAIN GEAR BOX.

- 4.12.17. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.12.17.1. PERFORMS MINOR MAINTENANCE.
  - 4.12.17.2. PERFORMS MAJOR MAINTENANCE.
- 4.12.8. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.12.19. ACCOMPLISHES TCTO.
- 4.12.20. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.12.21. PERFORMS CORROSION CONTROL.
- 4.12.22. PERFORMS SERVICE INSPECTION.
- 4.12.23. REFUELS UNIT.
- 4.13. PERFORMS HYDRAULIC TEST STAND (GAS) INSPECTION (TTU-228E):
  - 4.13.1. INSPECTS UNIT.
  - 4.13.2. INSPECTS TRAILER AND HOUSING.
  - 4.13.3. INSPECTS HIGH PRESSURE SYSTEM.
  - 4.13.4. INSPECTS HYDRAULIC FLUID.
  - 4.13.5. INSPECTS FILL AND RETURN SYSTEM.
  - 4.13.6. MAINTAINS FILTER.
  - 4.13.7. INSPECTS LOW PRESSURE SYSTEM.
  - 4.13.8. INSPECTS COOLING SYSTEM.
  - 4.13.9. INSPECTS ELECTRICAL SYSTEM.
  - 4.13.10. INSPECTS GENERATOR/ALTERNATOR.
  - 4.13.11. INSPECTS BATTERY.
  - 4.13.12. INSPECTS FUSE AND HOLDER.
  - 4.13.13. INSPECTS ENGINE ASSEMBLY.
  - 4.13.14. PERFORMS OPERATIONAL CHECK.
  - 4.13.15. LUBRICATES UNIT.
  - 4.13.16. PERFORMS SPECIAL INSPECTION:
    - 4.13.16.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
    - 4.13.16.2. CHECKS AXLE SPINDLE.

- 4.13.16.3. LUBRICATES ELECTRIC MOTOR BEARING.
- 4.13.16.4. DRAINS AND REFILLS MAIN GEAR BOX.
- 4.13.17. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.13.17.1. PERFORMS MINOR MAINTENANCE.
  - 4.13.17.2. PERFORMS MAJOR MAINTENANCE.
- 4.13.18. PERFORMS ACCEPTANCE INSPECTION.
- 4.13.19. ACCOMPLISHES TCTO.
- 4.13.20. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.13.21. PERFORMS CORROSION CONTROL.
- 4.13.22. PERFORMS SERVICE INSPECTION.
- 4.13.23. REFUELS UNIT.
- 4.14. PERFORMS HYDRAULIC TEST STAND (GAS) INSPECTION (D-5):
  - 4.14.1. INSPECTS UNIT.
  - 4.14.2. INSPECTS TRAILER AND HOUSING.
  - 4.14.3. INSPECTS HIGH PRESSURE SYSTEM.
  - 4.14.4. INSPECTS HYDRAULIC FLUID.
  - 4.14.5. INSPECTS FILL AND RETURN SYSTEM.
  - 4.14.6. MAINTAINS FILTER.
  - 4.14.7. INSPECTS LOW PRESSURE SYSTEM.
  - 4.14.8. INSPECTS COOLING SYSTEM.
  - 4.14.9. INSPECTS ELECTRICAL SYSTEM.
  - 4.14.10. INSPECTS GENERATOR/ALTERNATOR.
  - 4.14.11. INSPECTS BATTERY.
  - 4.14.12. INSPECTS FUSE AND HOLDER.
  - 4.14.13. INSPECTS ENGINE ASSEMBLY.
  - 4.14.14. PERFORMS OPERATIONAL CHECK.
  - 4.14.15. LUBRICATES UNIT.
  - 4.14.16. PERFORMS SPECIAL INSPECTION:

- 4.14.16.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
- 4.14.16.2. CHECKS AXLE SPINDLE.
- 4.14.16.3. LUBRICATES ELECTRIC MOTOR BEARING.
- 4.14.16.4. DRAINS AND REFILLS MAIN GEAR BOX.
- 4.14.17. PERFORMS UNSCHEDULED MAINTENANCE:
- 4.14.18. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.14.19. ACCOMPLISHES TCTO.
- 4.14.20. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.14.21. PERFORMS CORROSION CONTROL.
- 4.14.22. PERFORMS SERVICE INSPECTION.
- 4.14.23. REFUELS UNIT.
- 4.15. PERFORMS HYDRAULIC TEST STAND (DIESEL) INSPECTION (MJ1-1):
  - 4.15.1. INSPECTS UNIT.
  - 4.15.2. INSPECTS HOUSING AND TRAILER. Inspects chassis, frame hinged door, door latch, tow bar assembly, undercarriage, axle brake linkage, tire, bearing, hand brake, and battery box for corrosion.
  - 4.15.3. INSPECTS AIR PRESSURIZATION SYSTEM. Inspects relief valve travel, tubing and hose assembly, water from air receiver, v-belt, and compressor; and replaces filter for proper air pressure.
  - 4.15.4. INSPECTS HIGH PRESSURE SYSTEM. Inspects tubing assembly, relief valve, manifold block, pressure gauge, regulator, sample valve, flexible hose, high pressure hydraulic pump, and high pressure filter for pressure.
  - 4.15.5. INSPECTS HYDRAULIC FLUID. Opens reservoir valve, drains contaminated fluid, and replaces with new fluid.
  - 4.15.6. INSPECTS FILL AND RETURN SYSTEM. Inspects tubing assembly, fill valve, relief valve, compound gauge, and flowmeter for damage.
  - 4.15.7. MAINTAINS FILTER.
  - 4.15.8. INSPECTS LOW PRESSURE SYSTEM. Inspects tubing, hose assembly, bleed valve, pump, flowmeter/flow sensor, and low pressure filter for damage.
  - 4.15.9. INSPECTS COOLING SYSTEM. Inspects fan and belt cooler assembly, and fan drive shaft for damage.

4.15.10. INSPECTS ELECTRICAL SYSTEM. Inspects light and panel, fill motor, tachometer, and switch for wear.

4.15.11. INSPECTS GENERATOR/ALTERNATOR. Checks mounting, commutator/slip ring, brush spring/holder, and brush for wear and tear.

4.15.12. INSPECTS BATTERY.

4.15.13. INSPECTS FUSE AND HOLDER.

4.15.14. INSPECTS ENGINE ASSEMBLY. Checks cowling, security, exhaust system, inlet filter, fuel pump, fuel filter, fuel tank, and oil filter to prevent clogging. Checks coolant level to prevent over heating.

4.15.16. LUBRICATES UNIT. Drains and refills crankcase; lubricates main gear box; greases hydraulic pump control, wheel spindle, drive shaft, steering tie rod, spring shackle, and tow bar, pivot point; oils axle suspension brace, tow bar pin and latch, brake linkage, hinge and lock, pintle hook, starter; and packs drive gear cable to prevent excessive friction and wear.

4.15.17. PERFORMS SPECIAL INSPECTION:

4.15.17.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.15.17.2. CHECKS AXLE SPINDLE.

4.15.17.3. LUBRICATES ELECTRIC MOTOR BEARING.

4.15.17.4. DRAINS AND REFILLS MAIN GEAR BOX.

4.15.18. PERFORMS UNSCHEDULED MAINTENANCE:

4.15.18.1. PERFORMS MINOR MAINTENANCE.

4.15.18.2. PERFORMS MAJOR MAINTENANCE.

4.15.19. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.15.20. ACCOMPLISHES TCTO.

4.15.21. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.

4.15.22. PERFORMS CORROSION CONTROL.

4.15.23. PERFORMS SERVICE INSPECTION.

4.15.24. REFUELS UNIT.

4.16. PERFORMS HYDRAULIC TEST STAND (DIESEL) INSPECTION (TTU228E):

4.16.1. INSPECTS UNIT.

- 4.16.2. INSPECTS TRAILER AND HOUSING.
- 4.16.3. INSPECTS AIR PRESSURIZATION SYSTEM.
- 4.16.4. INSPECTS HIGH PRESSURE SYSTEM.
- 4.16.5. INSPECTS HYDRAULIC FLUID.
- 4.16.6. INSPECTS FILL AND RETURN SYSTEM.
- 4.16.7. MAINTAINS FILTER.
- 4.16.8. INSPECTS LOW PRESSURE SYSTEM.
- 4.16.9. INSPECTS COOLING SYSTEM.
- 4.16.10. INSPECTS ELECTRICAL SYSTEM.
- 4.16.11. INSPECTS GENERATOR/ALTERNATOR.
- 4.16.12. INSPECTS BATTERY.
- 4.16.13. INSPECTS FUSE AND HOLDER.
- 4.16.14. INSPECTS ENGINE ASSEMBLY.
- 4.16.15. PERFORMS OPERATIONAL CHECK.
- 4.16.16. LUBRICATES UNIT.
- 4.16.17. PERFORMS SPECIAL INSPECTION:
  - 4.16.17.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
  - 4.16.17.2. CHECKS AXLE SPINDLE.
  - 4.16.17.3. LUBRICATES ELECTRIC MOTOR BEARING.
  - 4.16.17.4. DRAINS AND REFILLS MAIN GEAR BOX.
- 4.16.18. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.16.18.1. PERFORMS MINOR MAINTENANCE.
  - 4.16.18.2. PERFORMS MAJOR MAINTENANCE.
- 4.16.19. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.16.20. ACCOMPLISHES TCTO.
- 4.16.21. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.16.22. PERFORMS CORROSION CONTROL.
- 4.16.23. PERFORMS SERVICE INSPECTION.

4.16.24. REFUELS UNIT.

4.17. PERFORMS HYDRAULIC TEST STAND (DIESEL) INSPECTION (D-5):

4.17.1. INSPECTS UNIT.

4.17.2. INSPECTS TRAILER AND HOUSING.

4.17.3. INSPECTS AIR PRESSURIZATION SYSTEM.

4.17.4. INSPECTS HIGH PRESSURE SYSTEM.

4.17.5. INSPECTS HYDRAULIC FLUID.

4.17.6. INSPECTS FILL AND RETURN SYSTEM.

4.17.7. MAINTAINS FILTER.

4.17.8. INSPECTS LOW PRESSURE SYSTEM.

4.17.9. INSPECTS COOLING SYSTEM.

4.17.10. INSPECTS ELECTRICAL SYSTEM.

4.17.11. INSPECTS GENERATOR/ALTERNATOR.

4.17.12. INSPECTS BATTERY.

4.17.13. INSPECTS FUSE AND HOLDER.

4.17.14. INSPECTS ENGINE ASSEMBLY.

4.17.15. PERFORMS OPERATIONAL CHECK.

4.17.16. LUBRICATES UNIT.

4.17.17. PERFORMS SPECIAL INSPECTION:

4.17.17.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.17.17.2. CHECKS AXLE SPINDLE.

4.17.17.3. LUBRICATES ELECTRIC MOTOR BEARING.

4.17.17.4. DRAINS AND REFILLS MAIN GEAR BOX.

4.17.18. PERFORMS UNSCHEDULED MAINTENANCE:

4.17.18.1. PERFORMS MINOR MAINTENANCE.

4.17.18.2. PERFORMS MAJOR MAINTENANCE.

4.17.19. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.17.20. ACCOMPLISHES TCTO.

4.17.21. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.

4.17.22. PERFORMS CORROSION CONTROL.

4.17.23. PERFORMS SERVICE INSPECTION.

4.17.24. REFUELS UNIT.

4.18. PERFORMS HYDRAULIC JACKING MANIFOLD INSPECTION (AF/M27M-1):

4.18.1. INSPECTS UNIT.

4.18.2. INSPECTS TRAILER AND HOUSING. Inspects cover assembly, all access door assembly, and door latch for wear and tear.

4.18.3. INSPECTS ELECTRICAL SYSTEM. Inspects battery box, battery cable, generator, engine regulator, fan belt and pulley generator, magneto, starter, wiring, and battery electrolyte for corrosion.

4.18.4. INSPECTS REEL ASSEMBLY, HYDRAULIC HOSE. Inspects hose reel, sprocket assembly, elbow assembly, cranking mechanism, and hose for break and cut. Checks color code of hose and flow control to ensure compliance with TO.

4.18.5. INSPECTS HYDRAULIC PIPING ASSEMBLY. Checks hydraulic fluid contamination and inspects filter assembly, suction relief valve, tube assembly, pump assembly, and selector valve assembly for proper fitting.

4.18.6. INSPECTS FUEL TANK AND HYDRAULIC RESERVOIR ASSEMBLY. Inspects fuel tank, oil reservoir, filter screen, and breather reservoir for damage.

4.18.7. INSPECTS ENGINE ASSEMBLY. Services engine IAW lubrication chart. Inspects intake manifold, exhaust manifold, tube fitting, hose fitting, throttle control, fuel gauge, choke control fan, and fan belt tension for damage.

4.18.8. PERFORMS OPERATIONAL CHECK. Checks operation of gauge/meter; and checks engine for oil leak, fuel leak, and hydraulic leak.

4.18.9. PERFORMS LUBRICATION. Hand packs undercarriage; greases wheel spindle, steering tie rod, axle suspension, hose reel swivel joint, and revolutions per minute (RPM) tach; oils tow bar pin, brake linkage, miscellaneous hardware, and hose reel; and services engine to eliminate excessive friction.

4.18.10. PERFORMS SPECIAL INSPECTION:

4.18.10.1. SERVICES HIGH PRESSURE GAUGE.

4.18.10.2. DRAINS AND REFILLS TRANSMISSION.

- 4.18.10.3. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
- 4.18.10.4. INSPECTS FLOW CONTROL VALVE.
- 4.18.11. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.18.11.1. PERFORMS MINOR MAINTENANCE.
  - 4.18.11.2. PERFORMS MAJOR MAINTENANCE.
- 4.18.12. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.18.13. ACCOMPLISHES TCTO.
- 4.18.14. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.18.15. PERFORMS CORROSION CONTROL.
- 4.18.16. PERFORMS SERVICE INSPECTION.
- 4.18.17. REFUELS UNIT.
- 4.19. PERFORMS (GAS) ENGINE DRIVEN LIGHTING INSPECTION (NF-2):
  - 4.19.1. INSPECTS UNIT.
  - 4.19.2. INSPECTS IGNITION SYSTEM AND BATTERY. Checks battery electrolyte level, battery cable and connection, battery box, and ignition coil for wear.
  - 4.19.3. INSPECTS ENGINE/ASSEMBLY. Checks engine and item attached to engine/generator for wear.
  - 4.19.4. INSPECTS BALLAST TRANSFORMER. Checks condition of door, hinge, fuel tank and mount bracket, trailer bed, and fuel filter for damage. Checks chassis and running gear assembly, lubrication system, intake/exhaust system leak, and break assembly for minor repairs.
  - 4.19.5. LUBRICATES HOIST SCREW MECHANISM AND TRACK. Cleans and oils brake handle, brake cable, and hinge; lubricates CAM follower; drains and refills engine oil; and inspects crankcase breather valve wear.
  - 4.19.6. PERFORMS SPECIAL INSPECTION:
    - 4.19.6.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
    - 4.19.6.2. REMOVES HOIST BRAKE BEARING.
  - 4.19.7. PERFORMS UNSCHEDULE MAINTENANCE:
    - 4.19.7.1. PERFORMS MINOR MAINTENANCE.
    - 4.19.7.2. PERFORMS MAJOR MAINTENANCE.

- 4.19.8. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.19.9. ACCOMPLISHES TCTO.
- 4.19.10. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.19.11. PERFORMS CORROSION CONTROL.
- 4.19.12. PERFORMS SERVICE INSPECTION.
- 4.19.13. REFUELS UNIT.
- 4.20. PERFORMS (DIESEL) ENGINE DRIVEN LIGHTING INSPECTION (TF-1):
  - 4.20.1. INSPECTS UNIT.
  - 4.20.2. INSPECTS IGNITION SYSTEM AND BATTERY. Checks battery electrolyte level, battery cable, connection, battery box, and ignition coil for damage.
  - 4.20.3. INSPECTS ENGINE ASSEMBLY. Checks engine and item attached to engine/generator for damage.
  - 4.20.4. INSPECTS BALLAST TRANSFORMER. Checks chassis, running gear assembly, lubrication system, intake leak, exhaust system leak, and brake assembly for damage and replacement of worth parts.
  - 4.20.5. LUBRICATES HOIST SCREW MECHANISM AND TRACK. Cleans oils, and greases hoist brake; lubricates CAM follower; drains and refills engine oil; cleans and services engine air clean; inspects crankcase breather valve; and oils brake handle, brake cable, and hinge to prevent excessive friction and wear.
  - 4.20.6. PERFORMS SPECIAL INSPECTION:
    - 4.20.6.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
    - 4.20.6.2. REMOVES HOIST BRAKE BEARING.
  - 4.20.7. PERFORMS UNSCHEDULED MAINTENANCE:
    - 4.20.7.1. PERFORMS MINOR MAINTENANCE.
    - 4.20.7.2. PERFORMS MAJOR MAINTENANCE.
  - 4.20.8. PERFORMS ACCEPTANCE INSPECTION AND TEST.
  - 4.20.9. PREPARES EQUIPMENT FOR STORAGE OR SHIPMENT.
  - 4.20.10. ACCOMPLISHES TCTO.
  - 4.20.11. PERFORMS CORROSION CONTROL.
  - 4.20.12. PERFORMS SERVICE INSPECTION.

## 4.20.13. REFUELS UNIT.

## 4.21. PERFORMS CABIN LEAKAGE TESTER (ELECTRIC) MOTOR DRIVEN INSPECTION (AF/M24T-3):

## 4.21.1. INSPECTS UNIT.

## 4.21.2. INSPECTS TRAILER AND HOUSING.

4.21.3. INSPECTS COMPRESSOR. Services air filter; inspects for corrosion, crack, fraying, leak, security and other defect. Inspects tubing, hose, hose fitting, belt tension, coupling, and external seal for damage.

4.21.4. INSPECTS BLOWER, FAN AND DUCT. Services intake air filter and inspects for defect in fan duct. Inspects duct, housing, fan, blower assembly, silencer, belt tension, and drive coupling for damage. Removes sound insulation foam for proper inspection.

4.21.5. INSPECTS PNEUMATIC SYSTEM. Inspects equipment for defects in aftercooler, flowmeter, pressure gauge blower, pressure regulator, dump valve, relief valve, pilot valve, rate control valve, rate selector valve, rate of climb indicator, discharge air temperature gauge, canopy seal pressure gauge, canopy seal air regulator, pressure gauge cabinet, tubing, hose, and fitting for damage.

4.21.6. INSPECTS ELECTRICAL SYSTEM. Inspects switch, tachometer, temperature gauge, ammeter, drive motor, lamp assembly, circuit breaker, cable and connector, generator, and motor compressor for damage.

## 4.21.7. PERFORMS OPERATIONAL CHECK.

4.21.8. LUBRICATES UNIT. Lubricates blower gear case, blower bearing, blower coupling, latch hinge, exhaust damper, brake linkage, tow bar linkage, pintle hook, flowmeter, dashpot, tie rod, front wheel spindle, axle suspension brace, pressure regulator, valve packing gland, and cooling fan pillow block bearing; greases steering rod and king pin to prevent excessive friction damage.

4.21.9. LUBRICATES INTERNAL HYDRAULIC UNIT. Lubricates gear and bearing housing, trailer assembly, miscellaneous part-door hinge, latch, and tow bar pin to eliminate friction. Inspects wheel bearing and electric motor damage.

## 4.21.10. PERFORMS SPECIAL INSPECTION:

## 4.21.10.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

## 4.21.10.2. REMOVES HOIST BRAKE BEARING.

## 4.21.11. PERFORMS UNSCHEDULED MAINTENANCE:

4.21.11.1. PERFORMS MINOR MAINTENANCE.

4.21.11.2. PERFORMS MAJOR MAINTENANCE.

4.21.12. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.21.13. ACCOMPLISHES TCTO.

4.21.14. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.

4.21.15. PERFORMS CORROSION CONTROL.

4.21.16. PERFORMS SERVICE INSPECTION.

4.22. PERFORMS CABIN LEAKAGE TESTER ENGINE (GAS) DRIVEN INSPECTION (AF/M32-1):

4.22.1. INSPECTS UNIT.

4.22.2. INSPECTS TRAILER AND HOUSING. Inspects spring and brake linkage wear of trailer and housing unit.

4.22.3. INSPECTS ENGINE. Drains engine crankcase; cleans or replaces oil filter element; refills engine with oil; and cleans crankcase breather to eliminate clog. Inspects for crack, fraying, corrosion, leak, security and other defect of intake and exhaust manifold, muffler and pipe, fuel filter fuel tank, tubing, hose and fitting, and throttle control. Checks fuel gauge, choke control, fuel pump, water pump, and radiator for defects.

4.22.4. INSPECTS COMPRESSOR. Services air filter; inspects for crack, fraying, leak, security, and other defect of tubing, hose, fitting, belt tension, coupling, and seal.

4.22.5. INSPECTS BLOWER, FAN AND DUCT. Services intake air filter and inspects duct, housing, fan, blower assembly, drive coupling, silencer, belt tension, tubing, hose and hose fitting for damage.

4.22.6. INSPECTS PNEUMATIC SYSTEM. Inspects aftercooler, flowmeter, pressure gauge blower, pressure regulator, dump valve, relief valve, pilot valve, rate control valve, rate selector valve, rate of climb indicator, discharge air temperature gauge, canopy seal pressure gauge, canopy seal air regulator, pressure gauge cabin, tubing, hose, and fitting for wear.

4.22.7. INSPECTS IGNITION SYSTEM. Inspects battery, battery terminal, battery box, magneto or distributor, spark plug, switch, starter solenoid, ignition coil, ignition harness and cable, starter, and nickel battery for corrosion.

4.22.8. PERFORMS OPERATIONAL CHECK. Checks fuel oil and oil leak during/after operational check.

4.22.9. LUBRICATES UNIT. Lubricates blower gear case, blower bearing, blower coupling, hinge and latch, exhaust damper, brake linkage, tow bar linkage, pintle hook, flowmeter dashpot, tie rod, front wheel spindle and axle suspension brace, spring shackle, rotary compressor, and throttle linkage to prevent friction wear. Greases steering rod, king pin and undercarriage fitting to prevent excessive wear.

4.22.10. PERFORMS SPECIAL INSPECTION:

4.22.10.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.22.10.2. VERIFIES GAUGE FUNCTION.

4.22.10.3. REMOVES, DRAINS, AND REFILLS MOTOR.

4.22.11. PERFORMS UNSCHEDULED MAINTENANCE:

4.22.11.1. PERFORMS MINOR MAINTENANCE.

4.22.11.2. PERFORMS MAJOR MAINTENANCE.

4.22.12. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.22.13. ACCOMPLISHES TCTO.

4.22.14. PREPARES EQUIPMENT FOR STORAGE OR SHIPMENT.

4.22.15. PERFORMS CORROSION CONTROL.

4.22.16. PERFORMS SERVICE INSPECTION.

4.22.17. REFUELS UNIT.

4.23. PERFORMS CABIN LEAKAGE TESTER ENGINE (GAS) DRIVEN INSPECTION (MB-1):

4.23.1. INSPECTS UNIT.

4.23.2. INSPECTS TRAILER AND HOUSING.

4.23.3. INSPECTS ENGINE.

4.23.4. INSPECTS COMPRESSOR.

4.23.5. INSPECTS BLOWER, FAN, AND DUCT.

4.23.6. INSPECTS PNEUMATIC SYSTEM.

4.23.7. INSPECTS IGNITION SYSTEM.

4.23.8. PERFORMS OPERATIONAL CHECK.

4.23.9. LUBRICATES UNIT.

## 4.23.10. PERFORMS SPECIAL INSPECTION:

4.23.10.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.23.10.2. VERIFIES GAUGE FUNCTION.

4.23.10.3. REMOVES, DRAINS, AND REFILLS MOTOR.

## 4.23.11. PERFORMS UNSCHEDULED MAINTENANCE:

4.23.11.1. PERFORMS MINOR MAINTENANCE.

4.23.11.2. PERFORMS MAJOR MAINTENANCE.

4.23.12. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.23.13. ACCOMPLISHES TCTO.

4.23.14. PREPARES EQUIPMENT FOR STORAGE OR SHIPMENT.

4.23.15. PERFORMS CORROSION CONTROL.

4.23.16. PERFORMS SERVICE INSPECTION.

4.23.17. REFUELS UNIT.

## 4.24. PERFORMS HEATER (ELECTRIC) INSPECTION (HDU-13/M):

4.24.1. INSPECTS UNIT.

4.24.2. INSPECTS TRAILER AND HOUSING. Checks brake control mechanism, tow bar latch, tire, duct, duct connector, exhaust extension, ground wire, spring, and axle for proper assembly.

4.24.3. CHECKS PRIME MOVER CONDITION. Checks electric bolt mount and motor condition.

4.24.4. INSPECTS ELECTRICAL SYSTEM. Checks power cable and wiring harness for damage and safety.

4.24.5. INSPECTS BLOWER GROUP. Checks intake screen, air filter, iris valve, damper actuator switch, drive coupling, and bearing for damage.

4.24.6. INSPECTS HEATING SECTION. Checks temperature bulb, element, or sensor for heat output.

4.24.7. INSPECTS PANEL GROUND AND CONTROL. Checks overheat switch, light, thermostat, and air temperature gauge for wear.

4.24.8. PERFORMS OPERATIONAL CHECK.

4.24.9. LUBRICATES UNIT. Oils brake handle, brake linkage, door latch, and door hinge; cleans air intake-dry type and fitting to prevent excessive wear.

- 4.24.10. PERFORMS SPECIAL INSPECTION:
  - 4.24.10.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
  - 4.24.10.2. CHECKS AXLE SPINDLE.
  - 4.24.10.3. PERFORMS CARBON MONOXIDE TEST.
- 4.24.11. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.24.11.1. PERFORMS MINOR MAINTENANCE.
  - 4.24.11.2. PERFORMS MAJOR MAINTENANCE.
- 4.24.12. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.24.13. ACCOMPLISHES TCTO.
- 4.24.14. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.24.15. PERFORMS CORROSION CONTROL.
- 4.24.16. PERFORMS SERVICE INSPECTION.
- 4.25. PERFORMS HEATER (ELECTRIC) INSPECTION (MD-1):
  - 4.25.1. INSPECTS UNIT.
  - 4.25.2. INSPECTS TRAILER AND HOUSING.
  - 4.25.3. CHECKS PRIME MOVER CONDITION.
  - 4.25.4. INSPECTS ELECTRICAL SYSTEM.
  - 4.25.5. INSPECTS BLOWER GROUP.
  - 4.25.6. INSPECTS HEATING SECTION.
  - 4.25.7. INSPECTS PANEL GROUND AND CONTROL.
  - 4.25.8. PERFORMS OPERATIONAL CHECK.
  - 4.25.9. LUBRICATES UNIT.
  - 4.25.10. PERFORMS SPECIAL INSPECTION:
    - 4.25.10.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
    - 4.25.10.2. CHECKS AXLE SPINDLE.
    - 4.25.10.3. PERFORMS CARBON MONOXIDE TEST.
  - 4.25.11. PERFORMS UNSCHEDULED MAINTENANCE:

- 4.25.11.1. PERFORMS MINOR MAINTENANCE.
- 4.25.11.2. PERFORMS MAJOR MAINTENANCE.
- 4.25.12. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.25.13. ACCOMPLISHES TCTO.
- 4.25.14. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.25.15. PERFORMS CORROSION CONTROL.
- 4.25.16. PERFORMS SERVICE INSPECTION.
- 4.26. PERFORMS HEATER (ELECTRIC) INSPECTION (H40-2):
  - 4.26.1. INSPECTS UNIT.
  - 4.26.2. INSPECTS TRAILER AND HOUSING.
  - 4.26.3. CHECKS PRIME MOVER.
  - 4.26.4. INSPECTS ELECTRICAL SYSTEM.
  - 4.26.5. INSPECTS BLOWER GROUP.
  - 4.26.6. INSPECTS HEATING SECTION.
  - 4.26.7. INSPECTS PANEL GROUND AND CONTROL.
  - 4.26.8. PERFORMS OPERATIONAL CHECK.
  - 4.26.9. LUBRICATES UNIT.
  - 4.26.10. PERFORMS SPECIAL INSPECTION:
    - 4.26.10.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
    - 4.26.10.2. CHECKS AXLE SPINDLE.
    - 4.26.10.3. PERFORMS CARBON MONOXIDE TEST.
  - 4.26.11. PERFORMS UNSCHEDULED MAINTENANCE:
    - 4.26.11.1. PERFORMS MINOR MAINTENANCE.
    - 4.26.11.2. PERFORMS MAJOR MAINTENANCE.
  - 4.26.12. PERFORMS ACCEPTANCE INSPECTION/TEST.
  - 4.26.13. ACCOMPLISHES TCTO.
  - 4.26.14. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.
  - 4.26.15. PERFORMS CORROSION CONTROL.

- 4.26.16. PERFORMS SERVICE INSPECTION.
- 4.27. PERFORMS HEATER (ELECTRIC) INSPECTION (HDU-12/E):
  - 4.27.1. INSPECTS UNIT.
  - 4.27.2. INSPECTS TRAILER AND HOUSING.
  - 4.27.3. CHECKS PRIME MOVER CONDITION.
  - 4.27.4. INSPECTS ELECTRICAL SYSTEM.
  - 4.27.5. INSPECTS BLOWER GROUP.
  - 4.27.6. INSPECTS HEATING SECTION.
  - 4.27.7. INSPECTS PANEL GROUND AND CONTROL.
  - 4.27.8. PERFORMS OPERATIONAL CHECK.
  - 4.27.9. LUBRICATES UNIT.
  - 4.27.10. PERFORMS SPECIAL INSPECTION:
    - 4.27.10.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
    - 4.27.10.2. CHECKS AXLE SPINDLE.
    - 4.27.10.3. PERFORMS CARBON MONOXIDE TEST.
  - 4.27.11. PERFORMS UNSCHEDULED MAINTENANCE:
    - 4.27.11.1. PERFORMS MINOR MAINTENANCE.
    - 4.27.11.2. PERFORMS MAJOR MAINTENANCE.
  - 4.27.12. PERFORMS ACCEPTANCE INSPECTION AND TEST.
  - 4.27.13. ACCOMPLISHES TCTO.
  - 4.27.14. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
  - 4.27.15. PERFORMS CORROSION CONTROL.
- 4.28. PERFORMS HEATER ENGINE DRIVEN (DIESEL) INSPECTION (1H-1):
  - 4.28.1. INSPECTS UNIT.
  - 4.28.2. INSPECTS TRAILER AND HOUSING. Checks brake control mechanism, tow bar latch, tire, duct, duct connector, exhaust extension, ground wire, spring, and axle assembly for wear.
  - 4.28.3. INSPECTS PRIMER MOVER. Checks engine, governor, mechanism, drive belt, alternator/generator, engine fuel pump

and engine for proper adjustment.

4.28.4. INSPECTS FUEL SYSTEM. Checks fuel line, fuel fitting, fuel tank, filter cartridge, primer, and heater fuel pump for damage. Cleans and replaces atomizing head filter and fuel pump strainer to prevent clogging. Cleans and checks fuel drain hose for proper operation.

4.28.5. INSPECTS ELECTRICAL SYSTEM. Checks batter, battery electrolyte level, voltage regulator, power cable, ignitor lead, and wiring harness for corrosion.

4.28.6. INSPECTS BLOWER GROUP. Checks intake screen, air filter, iris valve, damper actuator switch, drive coupling, and bearing for damage.

4.28.7. INSPECTS HEATING SECTION. Checks combustor plate, burner, deflector, heat exchanger, spark arrestor, and temperature bulb/element for heat output.

4.28.8. INSPECTS PANEL GROUND AND CONTROL. Checks overheat switch, thermostat, selector valve, burner control valve, altitude compensator valve, mechanical regulator, combustion air pressure switch, air temperature gauge panel, and control for safety.

4.28.9. PERFORMS OPERATIONAL CHECK.

4.28.10. LUBRICATES UNIT. Oils brake handle, brake linkage, accessible governor control linkage, door, door latch, door hinge; cleans and services air intake; greases fitting; and drains and replaces engine oil to prevent damage.

4.28.11. PERFORMS SPECIAL INSPECTION:

4.28.11.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.28.11.2. CHECKS AXLE SPINDLE.

4.28.11.3. PERFORMS CARBON MONOXIDE TEST.

4.28.12. PERFORMS UNSCHEDULED MAINTENANCE:

4.28.12.1. PERFORMS MINOR MAINTENANCE.

4.28.12.2. PERFORMS MAJOR MAINTENANCE.

4.28.13. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.28.14. ACCOMPLISHES TCTO.

4.28.15. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.

4.28.16. PERFORMS CORROSION CONTROL.

- 4.28.17. PERFORMS SERVICE INSPECTION.
- 4.28.18. REFUELS UNIT.
- 4.29. PERFORMS HEATER ENGINE DRIVEN (DIESEL) INSPECTION (H-1):
  - 4.29.1. INSPECTS UNIT.
  - 4.29.2. INSPECTS TRAILER AND HOUSING.
  - 4.29.3. INSPECTS PRIME MOVER.
  - 4.29.4. INSPECTS FUEL SYSTEM.
  - 4.29.5. INSPECTS ELECTRICAL SYSTEM.
  - 4.29.6. INSPECTS BLOWER GROUP.
  - 4.29.7. INSPECTS HEATING SECTION.
  - 4.29.8. INSPECTS PANEL GROUND AND CONTROL.
  - 4.29.9. PERFORMS OPERATIONAL CHECK.
  - 4.29.10. LUBRICATES UNIT.
  - 4.29.11. PERFORMS SPECIAL INSPECTION:
    - 4.29.11.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
    - 4.29.11.2. CHECKS AXLE SPINDLE.
    - 4.29.11.3. PERFORMS CARBON MONOXIDE TEST.
  - 4.29.12. PERFORMS UNSCHEDULED MAINTENANCE:
    - 4.29.12.1. PERFORMS MINOR MAINTENANCE.
    - 4.29.12.2. PERFORMS MAJOR MAINTENANCE.
  - 4.29.13. PERFORMS ACCEPTANCE INSPECTION AND TEST.
  - 4.29.14. ACCOMPLISHES TCTO.
  - 4.29.15. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
  - 4.29.16. PERFORMS CORROSION CONTROL.
  - 4.29.17. PERFORMS SERVICE INSPECTION.
  - 4.29.18. REFUELS UNIT.
- 4.30. PERFORMS HEATER ENGINE DRIVEN (GAS) INSPECTION (H1C1):
  - 4.30.1. INSPECTS UNIT.

4.30.2. INSPECTS TRAILER AND HOUSING.

4.30.3. INSPECTS PRIME MOVER. Cleans and replaces atomizing head filter/fuel pump strainer; cleans and checks fuel drain hose operation; checks fuel line, fuel fitting, fuel tank and drains water; and checks filter cartridge, primer, and heater fuel pump for damage.

4.30.4. INSPECTS ELECTRICAL SYSTEM. Checks power cable and ignitor lead for damage.

4.30.5. INSPECTS BLOWER GROUP. Checks intake screen, air filter, iris valve, damper actuator switch, and drive coupling for damage.

4.30.6. INSPECTS HEATING SECTION. Checks combustor plate, burner, deflector, aft end of van heat exchange, spark arrestor, and temperature bulb/element/sensor for heat output.

4.30.7. INSPECTS PANEL GROUND AND CONTROL. Checks overheat switch, thermostat, selector valve, altitude compensator valve, mechanical flow regulator, and air temperature gauge for wear.

4.30.8. PERFORMS OPERATIONAL CHECK. Checks system leak in fuel, lubrication, intake system, and exhaust system; and makes adjustment as needed.

4.30.9. LUBRICATES UNIT. Oils brake handle and linkage, accessible governor control linkage, door latch, and door hinge; cleans air intake and gear case; drains and replaces hinge, and drains and replaces gear case oil and engine oil as necessary.

4.30.10. PERFORMS SPECIAL INSPECTION:

4.30.10.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.30.10.2. CHECKS AXLE SPINDLE.

4.30.10.3. PERFORMS CARBON MONOXIDE TEST.

4.30.11. PERFORMS UNSCHEDULED MAINTENANCE:

4.30.11.1. PERFORMS MINOR MAINTENANCE.

4.30.11.2. PERFORMS MAJOR MAINTENANCE.

4.30.12. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.30.13. ACCOMPLISHES TCTO.

4.30.14. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.

4.30.15. PERFORMS CORROSION CONTROL.

- 4.30.16. PERFORMS SERVICE INSPECTION.
- 4.30.17. REFUELS UNIT.
- 4.31. PERFORMS HEATER ENGINE DRIVEN (GAS) INSPECTION (BT400):
  - 4.31.1. INSPECTS UNIT.
  - 4.31.2. INSPECTS TRAILER AND HOUSING.
  - 4.31.3. INSPECTS PRIME MOVER.
  - 4.31.4. INSPECTS FUEL SYSTEM.
  - 4.31.5. INSPECTS ELECTRICAL SYSTEM.
  - 4.31.6. INSPECTS BLOWER GROUP.
  - 4.31.7. INSPECTS HEATING SECTION.
  - 4.31.8. INSPECTS PANEL GROUND AND CONTROL.
  - 4.31.9. PERFORMS OPERATIONAL CHECK.
  - 4.31.10. LUBRICATES UNIT.
  - 4.31.11. PERFORMS SPECIAL INSPECTION:
    - 4.31.11.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
    - 4.31.11.2. CHECKS AXLE SPINDLE.
    - 4.31.11.3. PERFORMS CARBON MONOXIDE TEST.
  - 4.31.12. PERFORMS UNSCHEDULED MAINTENANCE:
    - 4.31.12.1. PERFORMS MINOR MAINTENANCE.
    - 4.31.12.2. PERFORMS MAJOR MAINTENANCE.
  - 4.31.13. PERFORMS ACCEPTANCE INSPECTION AND TEST.
  - 4.31.14. ACCOMPLISHES TCTO.
  - 4.31.15. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.
  - 4.31.16. PERFORMS CORROSION CONTROL.
  - 4.31.17. PERFORMS SERVICE INSPECTION.
  - 4.31.18. REFUELS UNIT.
- 4.32. PERFORMS HEATER ENGINE DRIVEN (GAS) INSPECTION (H-1):
  - 4.32.1. INSPECTS UNIT.

- 4.32.2. INSPECTS TRAILER AND HOUSING.
- 4.32.3. INSPECTS PRIME MOVER.
- 4.32.4. INSPECTS FUEL SYSTEM.
- 4.32.5. INSPECTS ELECTRICAL SYSTEM.
- 4.32.6. INSPECTS BLOWER GROUP.
- 4.32.7. INSPECTS HEATING SECTION.
- 4.32.8. INSPECTS PANEL GROUND AND CONTROL.
- 4.32.9. PERFORMS OPERATIONAL CHECK.
- 4.32.10. LUBRICATES UNIT.
- 4.32.11. PERFORMS SPECIAL INSPECTION:
  - 4.32.11.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
  - 4.32.11.2. CHECKS AXLE SPINDLE.
  - 4.32.11.3. PERFORMS CARBON MONOXIDE TEST.
- 4.32.12. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.32.12.1. PERFORMS MINOR MAINTENANCE.
  - 4.32.12.2. PERFORMS MAJOR MAINTENANCE.
- 4.32.13. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.32.14. ACCOMPLISHES TCTO.
- 4.32.15. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.32.16. PERFORMS CORROSION CONTROL.
- 4.32.17. PERFORMS SERVICE INSPECTION.
- 4.32.18. REFUELS UNIT.
- 4.33. PERFORMS HEATER ENGINE DRIVEN (GAS) INSPECTION (MC-1):
  - 4.33.1. INSPECTS UNIT.
  - 4.33.2. INSPECTS TRAILER AND HOUSING.
  - 4.33.3. INSPECTS PRIME MOVER.
  - 4.33.4. INSPECTS FUEL SYSTEM.

- 4.33.5. INSPECTS ELECTRICAL SYSTEM.
- 4.33.6. INSPECTS BLOWER GROUP.
- 4.33.7. INSPECTS HEATING SECTION.
- 4.33.8. INSPECTS PANEL GROUND AND CONTROL.
- 4.33.9. PERFORMS OPERATIONAL CHECK.
- 4.33.10. LUBRICATES UNIT.
- 4.33.11. PERFORMS SPECIAL INSPECTION:
  - 4.33.11.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
  - 4.33.11.2. CHECKS AXLE SPINDLE.
  - 4.33.11.3. PERFORMS CARBON MONOXIDE TEST.
- 4.33.12. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.33.12.1. PERFORMS MINOR MAINTENANCE.
  - 4.33.12.2. PERFORMS MAJOR MAINTENANCE.
- 4.33.13. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.33.14. ACCOMPLISHES TCTO.
- 4.33.15. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.33.16. PERFORMS CORROSION CONTROL.
- 4.33.17. PERFORMS SERVICE INSPECTION.
- 4.33.18. REFUELS UNIT.
- 4.34. PERFORMS MOTOR DRIVEN GENERATOR SET (ELECTRIC) INSPECTION (MD-2/2D):
  - 4.34.1. INSPECTS UNIT.
  - 4.34.2. INSPECTS CONTROL CIRCUIT.
  - 4.34.3. INSPECTS MOTOR AND GENERATOR ASSEMBLY. Visually inspects for damage affecting serviceability.
  - 4.34.4. INSPECTS TRAILER AND HOUSING. Inspects panel and door for damage affecting serviceability.
  - 4.34.5. INSPECTS WHEEL MOUNTED GENERATOR. Visually inspects towbar, steering mechanism, brake linkage, and tire for damage.

4.34.6. PERFORMS OPERATIONAL CHECK. Checks operation of meter and panel light for proper reading and operation.

4.34.7. LUBRICATES UNIT. Lubricates all points shown on work card, such as tow bar swivel and grease fitting, to prevent excessive friction.

4.34.8. PERFORMS SPECIAL INSPECTION:

4.34.8.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.34.8.2. CHECKS AXLE SPINDLE.

4.34.8.3. LUBRICATES BEARING.

4.34.9. PERFORMS UNSCHEDULED MAINTENANCE:

4.34.9.1. PERFORMS MINOR MAINTENANCE.

4.34.9.2. PERFORMS MAJOR MAINTENANCE.

4.34.10. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.34.11. ACCOMPLISHES TCTO.

4.34.12. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.

4.34.13. PERFORMS CORROSION CONTROL.

4.34.14. PERFORMS SERVICE INSPECTION.

4.35. PERFORMS MOTOR DRIVEN GENERATOR SET (ELECTRIC) INSPECTION (MD-1):

4.35.1. INSPECTS UNIT.

4.35.2. INSPECTS TRAILER AND HOUSING.

4.35.3. INSPECTS CONTROL CIRCUIT.

4.35.4. INSPECTS MOTOR AND GENERATOR ASSEMBLY.

4.35.5. INSPECTS WHEEL MOUNTED GENERATOR.

4.35.6. PERFORMS OPERATIONAL CHECK.

4.35.7. LUBRICATES UNIT.

4.35.8. PERFORMS SPECIAL INSPECTION:

4.35.8.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.35.8.2. CHECKS AXLE SPINDLE.

## 4.35.9. PERFORMS UNSCHEDULED MAINTENANCE:

4.35.9.1. PERFORMS MINOR MAINTENANCE.

4.35.9.2. PERFORMS MAJOR MAINTENANCE.

4.35.10. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.35.11. ACCOMPLISHES TCTO.

4.35.12. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.

4.35.13. PERFORMS CORROSION CONTROL.

4.35.14. PERFORMS SERVICE INSPECTION.

## 4.36. PERFORMS MOTOR DRIVEN GENERATOR SET (ELECTRIC) INSPECTION (MD-4/4D):

4.36.1. INSPECTS UNIT.

4.36.2. INSPECTS TRAILER AND HOUSING.

4.36.3. INSPECTS CONTROL CIRCUIT.

4.36.4. INSPECTS MOTOR AND GENERATOR ASSEMBLY.

4.36.5. INSPECTS WHEEL MOUNTED GENERATOR.

4.36.6. PERFORMS OPERATIONAL CHECK.

4.36.7. LUBRICATES UNIT.

## 4.36.8. PERFORMS SPECIAL INSPECTION:

4.36.8.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.36.8.2. CHECKS AXLE SPINDLE.

4.36.8.3. LUBRICATES BEARING.

## 4.36.9. PERFORMS UNSCHEDULED MAINTENANCE:

4.36.9.1. PERFORMS MINOR MAINTENANCE.

4.36.9.2. PERFORMS MAJOR MAINTENANCE.

4.36.10. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.36.11. ACCOMPLISHES TCTO.

4.36.12. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.

4.36.13. PERFORMS CORROSION CONTROL.

4.36.14. PERFORMS SERVICE INSPECTION.

4.37. PERFORMS MOTOR DRIVEN GENERATOR SET (GAS) INSPECTION (MC-1A):

4.37.1. INSPECTS UNIT.

4.37.2. INSPECTS CONTROL CIRCUIT.

4.37.3. INSPECTS MOTOR AND GENERATOR ASSEMBLY.

4.37.4. INSPECTS TRAILER AND HOUSING.

4.37.5. INSPECTS WHEEL MOUNTED GENERATOR.

4.37.6. PERFORMS OPERATIONAL CHECK.

4.37.7. LUBRICATES UNIT.

4.37.8. PERFORMS SPECIAL INSPECTION:

4.37.8.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.37.8.2. CHECKS SPINDLE.

4.37.8.3. LUBRICATES BEARING.

4.37.9. PERFORMS UNSCHEDULED MAINTENANCE:

4.37.9.1. PERFORMS MINOR MAINTENANCE.

4.37.9.2. PERFORMS MAJOR MAINTENANCE.

4.37.10. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.37.11. ACCOMPLISHES TCTO.

4.37.12. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.

4.37.13. PERFORMS CORROSION CONTROL.

4.37.14. PERFORMS SERVICE INSPECTION.

4.38. PERFORMS ENGINE DRIVEN GENERATOR SET (GAS) INSPECTION (MEP-016A):

4.38.1. INSPECTS UNIT.

4.38.2. INSPECTS TRAILER AND HOUSING. Inspects u-bolt, axle, and tire lug for corrosion.

4.38.2.1. CHECK TIRE PRESSURE (FRONT AND REAR).

4.38.2.2. INSPECTS WHEEL AND TIRE ASSEMBLY.

#### 4.38.2.3. INSPECTS CHASSIS AND HOUSING.

4.38.3. INSPECTS BATTERY. Inspects battery compartment, quick disconnect, thermostat, drain/vent tube, and battery for corrosion.

4.38.4. INSPECTS FRONT WHEEL DRIVE ASSEMBLY. Inspects mounting strap assembly, actuator shaft, micro switch, tow bar, and housing for cracking/corrosion.

4.38.5. INSPECTS FUEL SYSTEM. Inspects accessible line, fitting, valve, tank strap, and turnbuckle for damage.

4.38.6. INSPECTS EXTERNAL POWER PANEL. Inspects direct current (DC) power receptacle, alternate current (AC) convenience receptacle, and AC power receptacle for corrosion and damage.

4.38.7. INSPECTS POWER CABLE. Inspects AC power cable, AC power clamp, DC power cable and DC power clamp for proper installation.

4.38.8. INSPECTS GENERATOR COMPARTMENT. Inspects AC main line contractor, shut-off control, power distribution terminal strip, cooling/heating duct, AC generator brush, commutator and slip ring, DC generator brush, and commutator for corrosion.

4.38.9. INSPECTS ELECTRICAL CONTROL BOX. Inspects AC exciter circuit fuse and DC voltage regulator contact for corrosion.

4.38.10. INSPECTS INSTRUMENT CONTROL PANEL. Tests light and inspects instrument panel shock mount and switch for damage.

4.38.11. INSPECTS ENGINE AND ENGINE COMPARTMENT. Inspects flexible air duct, inner cylinder baffle, carburetor and linkage, governor linkage, fuel pump, electrical wiring, intake manifold, exhaust manifold, starter, and exhaust shroud for corrosion, and checks muffler and air filter for damage.

4.38.12. PERFORMS OPERATIONAL CHECK. Verifies operations of gauge, meter, and control, and checks oil and fuel leaks.

4.38.13. LUBRICATES UNIT. Removes oil filter; removes and cleans element; installs plug; lubricates engine crankcase; drains and checks low oil level shut-off to prevent excessive friction damage.

4.38.13.1. LUBRICATES GENERATOR DRIVE GEAR CASE. Drains and refills gear case.

4.38.13.2. LUBRICATES TOW BAR HINGE.

4.38.13.3. LUBRICATES FRONT WHEEL DRIVE GEAR CASE. Drains gear

case; refills gear case; and lubricates housing hinge, throttle and choke linkage, and governor spring to prevent excessive friction.

4.38.14. PERFORMS SPECIAL INSPECTION:

4.38.14.1. INSPECTS AC CONVENIENCE RECEPTACLE.

4.38.14.2. DRAINS AND REFILLS FRONT WHEEL DRIVE GEAR CASE.

4.38.14.3. REPACKS REAR WHEEL BEARING.

4.38.15. PERFORMS UNSCHEDULED MAINTENANCE:

4.38.15.1. PERFORMS MINOR MAINTENANCE.

4.38.15.2. PERFORMS MAJOR MAINTENANCE.

4.38.16. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.38.17. ACCOMPLISHES TCTO.

4.38.18. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.

4.38.19. PERFORMS CORROSION CONTROL.

4.38.20. PERFORMS SERVICE INSPECTION.

4.38.21. REFUELS UNIT.

4.39. PERFORMS ENGINE DRIVEN (GAS) GENERATOR SET INSPECTION (MD-3):

4.39.1. INSPECTS UNIT.

4.39.2. INSPECTS TRAILER AND HOUSING:

4.39.2.1. CHECKS TIRE PRESSURE (FRONT AND REAR).

4.39.2.2. INSPECTS WHEEL AND TIRE ASSEMBLY.

4.39.3. INSPECTS BATTERY.

4.39.4. INSPECTS FRONT WHEEL DRIVE ASSEMBLY.

4.39.5. INSPECTS FUEL SYSTEM.

4.39.6. INSPECTS EXTERNAL POWER PANEL.

4.39.7. INSPECTS POWER CABLE.

4.39.8. INSPECTS GENERATOR COMPARTMENT.

4.39.9. INSPECTS ELECTRICAL CONTROL BOX.

- 4.39.10. INSPECTS INSTRUMENT CONTROL PANEL.
- 4.39.11. INSPECTS ENGINE AND ENGINE COMPARTMENT.
- 4.39.12. PERFORMS OPERATIONAL CHECK.
- 4.39.13. LUBRICATES UNIT:
  - 4.39.13.1. LUBRICATES GENERATOR DRIVE GEAR CASE.
  - 4.39.13.2. LUBRICATES TOW BAR HINGE.
  - 4.39.13.3. LUBRICATES FRONT WHEEL DRIVE GEAR CASE.
- 4.39.14. PERFORMS SPECIAL INSPECTION:
  - 4.39.14.1. INSPECTS AC CONVENIENCE RECEPTACLE.
  - 4.39.14.2. DRAINS AND REFILLS FRONT WHEEL DRIVE GEAR CASE.
  - 4.39.14.3. REPACKS REAR WHEEL BEARING.
- 4.39.15. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.39.15.1. PERFORMS MINOR MAINTENANCE.
  - 4.39.15.2. PERFORMS MAJOR MAINTENANCE.
- 4.39.16. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.39.17. ACCOMPLISHES TCTO.
- 4.39.18. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.
- 4.39.19. PERFORMS CORROSION CONTROL.
- 4.39.20. PERFORMS SERVICE INSPECTION.
- 4.39.21. REFUELS UNIT.
- 4.40. PERFORMS ENGINE DRIVEN (GAS) GENERATOR SET INSPECTION (K-5):
  - 4.40.1. INSPECTS UNIT.
  - 4.40.2. INSPECTS TRAILER AND HOUSING:
    - 4.40.2.1. CHECKS TIRE PRESSURE (FRONT AND REAR).
    - 4.40.2.2. INSPECTS WHEEL AND TIRE ASSEMBLY.
  - 4.40.3. INSPECTS BATTERY.
  - 4.40.4. INSPECTS FRONT WHEEL DRIVE ASSEMBLY.

- 4.40.5. INSPECTS FUEL SYSTEM.
- 4.40.6. INSPECTS EXTERNAL POWER PANEL.
- 4.40.7. INSPECTS POWER CABLE.
- 4.40.8. INSPECTS GENERATOR COMPARTMENT.
- 4.40.9. INSPECTS ELECTRICAL CONTROL BOX.
- 4.40.10. INSPECTS INSTRUMENT CONTROL PANEL.
- 4.40.11. INSPECTS ENGINE AND ENGINE COMPARTMENT.
- 4.40.12. PERFORMS OPERATIONAL CHECK.
- 4.40.13. LUBRICATES UNIT:
  - 4.40.13.1. LUBRICATES GENERATOR DRIVE GEAR CASE.
  - 4.40.13.2. LUBRICATES TOW BAR HINGE.
  - 4.40.13.3. LUBRICATES FRONT WHEEL DRIVE GEAR CASE.
- 4.40.14. PERFORMS SPECIAL INSPECTION:
  - 4.40.14.1. INSPECTS AC CONVENIENCE RECEPTACLE.
  - 4.40.14.2. DRAINS AND REFILLS FRONT WHEEL DRIVE BEAR CASE.
  - 4.40.14.3. REPACKS REAR WHEEL BEARING.
- 4.40.15. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.40.15.1. PERFORMS MINOR MAINTENANCE.
  - 4.40.15.2. PERFORMS MAJOR MAINTENANCE.
- 4.40.16. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.40.17. ACCOMPLISHES TCTO.
- 4.40.18. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.40.19. PERFORMS CORROSION CONTROL.
- 4.40.20. PERFORMS SERVICE INSPECTION.
- 4.40.21. REFUELS UNIT.
- 4.41. PERFORMS ENGINE DRIVEN (GAS) GENERATOR SET INSPECTION (MEP-007):
  - 4.41.1. INSPECTS UNIT.

- 4.41.2. INSPECTS TRAILER AND HOUSING:
  - 4.41.2.1. CHECKS TIRE PRESSURE (FRONT AND REAR).
  - 4.41.2.2. INSPECTS WHEEL AND TIRE ASSEMBLY.
- 4.41.3. INSPECTS BATTERY.
- 4.41.4. INSPECTS FRONT WHEEL DRIVE ASSEMBLY.
- 4.41.5. INSPECTS FUEL SYSTEM.
- 4.41.6. INSPECTS EXTERNAL POWER PANEL.
- 4.41.7. INSPECTS POWER CABLE.
- 4.41.8. INSPECTS GENERATOR COMPARTMENT.
- 4.41.9. INSPECTS ELECTRICAL CONTROL BOX.
- 4.41.10. INSPECTS INSTRUMENT CONTROL PANEL.
- 4.41.11. INSPECTS ENGINE AND COMPARTMENT.
- 4.41.12. PERFORMS OPERATIONAL CHECK.
- 4.41.13. LUBRICATES UNIT:
  - 4.41.13.1. LUBRICATES GENERATOR DRIVE GEAR CASE.
  - 4.41.13.2. LUBRICATES TOW BAR HINGE.
  - 4.41.13.3. LUBRICATES FRONT WHEEL DRIVE GEAR CASE.
- 4.41.14. PERFORMS SPECIAL INSPECTION:
  - 4.41.14.1. INSPECTS OR INSTALLS WHEEL BEARING AND BRAKE.
  - 4.41.14.2. PERFORMS HYDROSTATIC TEST.
  - 4.41.14.3. PERFORMS CARBON MONOXIDE TEST.
- 4.41.15. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.41.15.1. PERFORMS MINOR MAINTENANCE.
  - 4.41.15.2. PERFORMS MAJOR MAINTENANCE.
- 4.41.16. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.41.17. ACCOMPLISHES TCTO.
- 4.41.18. PREPARES EQUIPMENT FOR STORAGE OR SHIPMENT.
- 4.41.19. PERFORMS CORROSION CONTROL.

4.41.20. PERFORMS SERVICE INSPECTION.

4.41.21. REFUELS UNIT.

4.42. PERFORMS ENGINE DRIVEN (DIESEL) GENERATOR SET INSPECTION (AM32-86/86D):

4.42.1. INSPECTS UNIT.

4.42.2. INSPECTS TRAILER AND HOUSING. Inspects door, door panel, latch, and hinge, spark arrestor, undercarriage, and tire down lug for wear damage.

4.42.2.1. CHECKS TIRE PRESSURE (FRONT AND REAR).

4.42.2.2. INSPECTS WHEEL AND TIRE ASSEMBLY.

4.42.3. INSPECTS BATTERY. Inspects batter compartment, quick disconnect, thermostat, and drain/vent tube for obstruction and corrosion. Checks battery fluid level to prevent damage to cells.

4.42.4. INSPECTS TOW BAR AND HOUSING.

4.42.5. INSPECTS FUEL SYSTEM. Inspects accessible line, fitting, valve, tank strap, and turnbuckle for condensation.

4.42.6. INSPECTS EXTERNAL POWER PANEL. Inspects DC power cable receptacle, AC convenience receptacle, and AC power receptacle for corrosion.

4.42.7. INSPECTS POWER CABLE. Inspects AC and DC cable and clamp for proper connection.

4.42.8. INSPECTS GENERATOR COMPARTMENT. Inspects AC main line contractor, shut-off control, power distribution terminal strip, cooling fan, resistor and mount, cooling and heating duct, AC generator brush, commutator, slip ring, DC generator brush, and commutator for corrosion.

4.42.9. INSPECTS ELECTRICAL CONTROL BOX. Inspects AC exciter circuit 5-amp fuse brush type and DC voltage regulator contacts for corrosion.

4.42.10. INSPECTS INSTRUMENT CONTROL PANEL. Tests light and inspects instrument panel shock mount and switch for proper operation.

4.42.11. INSPECTS ENGINE AND ENGINE COMPARTMENT. Inspects flexible air duct, inner cylinder baffle, governor linkage, fuel pump, electrical wiring, intake manifold, exhaust manifold, starter, exhaust shroud, muffler, and air filter for damage and operation.

- 4.42.12. PERFORMS OPERATIONAL CHECK. Verifies operation of gauge, meter, and control for correct readings.
  - 4.42.13. LUBRICATES UNIT. Removes and cleans oil filter and element; lubricates engine crankcase; and drains and checks low oil level shut-off switch to eliminate excessive friction wear.
    - 4.42.13.1. LUBRICATES GENERATOR DRIVE GEAR CASE.
    - 4.42.13.2. LUBRICATES TOW BAR HINGE.
    - 4.42.13.3. LUBRICATES HOUSING HINGE.
    - 4.42.13.4. LUBRICATES THROTTLE AND CHOKE LINKAGE.
    - 4.42.13.5. LUBRICATES GOVERNOR SPRING.
  - 4.42.14. PERFORMS SPECIAL INSPECTION:
    - 4.42.14.1. INSPECTS AC CONVENIENCE RECEPTACLE.
    - 4.42.14.2. DRAINS AND REFILLS FRONT WHEEL DRIVE GEAR CASE.
    - 4.42.14.3. REPACKS WHEELS BEARING.
  - 4.42.15. PERFORMS UNSCHEDULED MAINTENANCE:
    - 4.42.15.1. PERFORMS MINOR MAINTENANCE.
    - 4.42.15.2. PERFORMS MAJOR MAINTENANCE.
  - 4.42.16. PERFORMS ACCEPTANCE INSPECTION AND TEST.
  - 4.42.17. ACCOMPLISHES TCTO.
  - 4.42.18. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.
  - 4.42.19. PERFORMS CORROSION CONTROL.
  - 4.42.20. PERFORMS SERVICE INSPECTION.
  - 4.42.21. REFUELS UNIT.
- 4.43. PERFORMS ENGINE DRIVEN (DIESEL) GENERATOR SET INSPECTION (MB-17):
    - 4.43.1. INSPECTS UNIT.
    - 4.43.2. INSPECTS TRAILER AND HOUSING:
      - 4.43.2.1. CHECKS TIRE PRESSURE (FRONT AND REAR).
      - 4.43.2.2. INSPECTS WHEEL AND TIRE ASSEMBLY.
    - 4.43.3. INSPECTS BATTERY.

- 4.43.4. INSPECTS TOW BAR AND HOUSING.
- 4.43.5. INSPECTS FUEL SYSTEM.
- 4.43.6. INSPECTS EXTERNAL POWER PANEL.
- 4.43.7. INSPECTS POWER CABLE.
- 4.43.8. INSPECTS GENERATOR COMPARTMENT.
- 4.43.9. INSPECTS ELECTRICAL CONTROL BOX.
- 4.43.10. INSPECTS INSTRUMENT CONTROL PANEL.
- 4.43.11. INSPECTS ENGINE AND ENGINE COMPARTMENT.
- 4.43.12. PERFORMS OPERATIONAL CHECK.
- 4.43.13. LUBRICATES UNIT:
  - 4.43.13.1. LUBRICATES GENERATOR DRIVE GEAR CASE.
  - 4.43.13.2. LUBRICATES TOW BAR HINGE.
  - 4.43.13.3. LUBRICATES HOUSING HINGE.
  - 4.43.13.4. LUBRICATES THROTTLE AND CHOKE LINKAGE.
  - 4.43.13.5. LUBRICATES GOVERNOR SPRING.
- 4.43.14. PERFORMS SPECIAL INSPECTION:
  - 4.43.14.1. INSPECTS AC CONVENIENCE RECEPTACLE.
  - 4.43.14.2. DRAINS AND REFILLS FRONT WHEEL DRIVE GEAR CASE.
  - 4.43.14.3. REPACKS WHEEL BEARING.
- 4.43.15. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.43.15.1. PERFORMS MINOR MAINTENANCE.
  - 4.43.15.2. PERFORMS MAJOR MAINTENANCE.
- 4.43.16. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.43.17. ACCOMPLISHES TCTO.
- 4.43.18. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.43.19. PERFORMS CORROSION CONTROL.
- 4.43.20. PERFORMS SERVICE INSPECTION.

4.43.21. REFUELS UNIT.

4.44. PERFORMS ENGINE DRIVEN (DIESEL) GENERATOR SET INSPECTION (MEP-009B):

4.44.1. INSPECTS UNIT.

4.44.2. INSPECTS TRAILER AND HOUSING:

4.44.2.1. CHECKS TIRE PRESSURE (FRONT AND REAR).

4.44.2.2. INSPECTS WHEEL AND TIRE ASSEMBLY.

4.44.3. INSPECTS BATTERY.

4.44.4. INSPECTS TOW BAR AND HOUSING.

4.44.5. INSPECTS FUEL SYSTEM.

4.44.6. INSPECTS EXTERNAL POWER PANEL.

4.44.7. INSPECTS POWER CABLE.

4.44.8. INSPECTS GENERATOR COMPARTMENT.

4.44.9. INSPECTS ELECTRICAL CONTROL BOX.

4.44.10. INSPECTS INSTRUMENT CONTROL PANEL.

4.44.11. INSPECTS ENGINE AND ENGINE COMPARTMENT.

4.44.12. PERFORMS OPERATIONAL CHECK.

4.44.13. LUBRICATES UNIT:

4.44.13.1. LUBRICATES GENERATOR DRIVE GEAR CASE.

4.44.13.2. LUBRICATES TOW BAR HINGE.

4.44.13.3. LUBRICATES HOUSING HINGE.

4.44.13.4. LUBRICATES THROTTLE AND CHOKE LINKAGE.

4.44.13.5. LUBRICATES GOVERNOR SPRING.

4.44.14. PERFORMS SPECIAL INSPECTION:

4.44.14.1. INSPECTS AC CONVENIENCE RECEPTACLE.

4.44.14.2. DRAINS AND REFILLS FRONT WHEEL DRIVE GEAR CASE.

4.44.14.3. REPACKS WHEEL BEARING.

- 4.44.15. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.44.15.1. PERFORMS MINOR MAINTENANCE.
  - 4.44.15.2. PERFORMS MAJOR MAINTENANCE.
- 4.44.16. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.44.17. ACCOMPLISHES TCTO.
- 4.44.18. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.
- 4.44.13.1. LUBRICATES GENERATOR DRIVE GEAR CASE.
- 4.44.13.2. LUBRICATES TOW BAR HINGE.
- 4.44.13.3. LUBRICATES HOUSING HINGE.
- 4.44.13.4. LUBRICATES THROTTLE AND CHOKE LINKAGE.
- 4.44.13.5. LUBRICATES GOVERNOR SPRING.
- 4.44.14. PERFORMS SPECIAL INSPECTION:
  - 4.44.14.1. INSPECTS AC CONVENIENCE RECEPTACLE.
  - 4.44.14.2. DRAINS AND REFILLS FRONT WHEEL DRIVE GEAR CASE.
  - 4.44.14.3. REPACKS WHEEL BEARING.
- 4.44.15. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.44.15.1. PERFORMS MINOR MAINTENANCE.
  - 4.44.15.2. PERFORMS MAJOR MAINTENANCE.
- 4.44.16. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.44.17. ACCOMPLISHES TCTO.
- 4.44.18. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.
- 4.44.19. PERFORMS CORROSION CONTROL.
- 4.44.20. PERFORMS SERVICE INSPECTION.
- 4.44.21. REFUELS UNIT.
- 4.45. PERFORMS ENGINE DRIVEN (DIESEL) GENERATOR SET INSPECTION (MB-15):
  - 4.45.1. INSPECTS UNIT.
  - 4.45.2. INSPECTS TRAILER AND HOUSING:

- 4.45.2.1. CHECKS TIRE PRESSURE (FRONT AND REAR).
- 4.45.2.2. INSPECTS WHEEL AND TIRE ASSEMBLY.
- 4.45.3. INSPECTS BATTERY.
- 4.45.4. INSPECTS TOW BAR AND HOUSING.
- 4.45.5. INSPECTS FUEL SYSTEM.
- 4.45.6. INSPECTS EXTERNAL POWER PANEL.
- 4.45.7. INSPECTS POWER CABLE.
- 4.45.8. INSPECTS GENERATOR COMPARTMENT.
- 4.45.9. INSPECTS ELECTRICAL CONTROL BOX.
- 4.45.10. INSPECTS INSTRUMENT CONTROL PANEL.
- 4.45.11. INSPECTS ENGINE AND ENGINE COMPARTMENT.
- 4.45.12. PERFORMS OPERATIONAL CHECK.
- 4.45.13. LUBRICATES UNIT:
  - 4.45.13.1. LUBRICATES GENERATOR DRIVE GEAR CASE.
  - 4.45.13.2. LUBRICATES TOW BAR HINGE.
  - 4.45.13.3. LUBRICATES HOUSING HINGE.
  - 4.45.13.4. LUBRICATES THROTTLE AND CHOKE LINKAGE.
  - 4.45.13.5. LUBRICATES GOVERNOR SPRING.
- 4.45.14. PERFORMS SPECIAL INSPECTION:
  - 4.45.14.1. INSPECTS AC CONVENIENCE RECEPTACLE.
  - 4.45.14.2. DRAINS AND REFILLS FRONT WHEEL DRIVE GEAR CASE.
  - 4.45.14.3. REPACKS WHEEL BEARING.
- 4.45.15. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.45.15.1. PERFORMS MINOR MAINTENANCE.
  - 4.45.15.2. PERFORMS MAJOR MAINTENANCE.
- 4.45.16. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.45.17. ACCOMPLISHES TCTO.
- 4.45.18. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.

4.45.19. PERFORMS CORROSION CONTROL.

4.45.20. PERFORMS SERVICE INSPECTION.

4.45.21. REFUELS UNIT.

4.46. PERFORMS TURBINE DRIVEN GENERATOR SET INSPECTION  
(AM32A-60):

4.46.1. INSPECTS UNIT.

4.46.2. INSPECTS TRAILER AND HOUSING. Checks for cleanliness, reflectorization, and paint condition to prevent major repainting. Checks housing assembly, door panel, door latch, exhaust duct assembly, spring and u-bolt, tie rod, steering mechanism, axle, tire, and battery compartment for damage.

4.46.3. INSPECTS FUEL SYSTEM. Inspects fuel tank assembly, fuel line, hose, fuel filter, screen, fuel control unit filter, and oil line for serviceability.

4.46.4. INSPECTS BATTERY CHARGING CIRCUIT. Inspects battery charger, input 15 amp fuse, and output 30 amp fuse serviceability.

4.46.5. INSPECTS ELECTRICAL SYSTEM. Inspects power outlet panel, DC power voltage regulator, transformer rectifier, AC control, DC control, turbine engine control box, miscellaneous electrical control box, AC cable, remote control harness receptacle, DC generator brush and commutator, and DC power cable for damage.

4.46.6. INSPECTS BLEED AIR SYSTEM. Inspects bleed air system, bleed air coupling, and swivel EMD adapter system for serviceability.

4.46.7. INSPECTS TURBINE ASSEMBLY. Inspects combustor cap, atomizer and screen, ignitor plug, flame tube, torus assembly, torus and tail pipe flange, engine mount, and plenum bolt for looseness and serviceability.

4.46.8. PERFORMS OPERATIONAL CHECK. Performs operational check IAW applicable TO or work cards for fuel system leak, lubrication system, pneumatic, plenum, load control valve, bulkhead adapter swivel, bleed air elbow, low level warning horn, and control air line and fitting.

4.46.9. INSPECTS EXHAUST LOCKOUT SWITCH.

4.46.10. LUBRICATES UNIT. Greases chassis fitting and hinge; and oils drawbar return to reduce friction.

4.46.11. PERFORMS SPECIAL INSPECTION:

- 4.46.11.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
- 4.46.11.2. INSPECTS KING PIN AND BUSHING.
- 4.46.11.3. INSPECTS AXLE SPINDLE.
- 4.46.12. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.46.12.1. PERFORMS MINOR MAINTENANCE.
  - 4.46.12.2. PERFORMS MAJOR MAINTENANCE.
- 4.46.13. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.46.14. ACCOMPLISHES TCTO.
- 4.46.15. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.
- 4.46.16. PERFORMS CORROSION CONTROL.
- 4.46.17. PERFORMS SERVICE INSPECTION.
- 4.47. PERFORMS TURBINE DRIVEN GENERATOR SET INSPECTION (MA-1A):
  - 4.47.1. INSPECTS UNIT.
  - 4.47.2. INSPECTS TRAILER AND HOUSING.
  - 4.47.3. INSPECTS BRAKE SYSTEM.
  - 4.47.4. INSPECTS FUEL SYSTEM.
  - 4.47.5. INSPECTS BATTERY CHARGING CIRCUIT.
  - 4.47.6. INSPECTS ELECTRICAL SYSTEM.
  - 4.47.7. INSPECTS BLEED AIR SYSTEM.
  - 4.47.8. INSPECTS TURBINE ASSEMBLY.
  - 4.47.9. PERFORMS OPERATIONAL CHECK.
  - 4.47.10. INSPECTS EXHAUST LOCKOUT SWITCH.
  - 4.47.11. LUBRICATES UNIT.
  - 4.47.12. PERFORMS SPECIAL INSPECTION:
    - 4.47.12.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
    - 4.47.12.2. INSPECTS KING PIN AND BUSHING.
    - 4.47.12.3. INSPECTS AXLE SPINDLE.
  - 4.47.13. PERFORMS UNSCHEDULED MAINTENANCE:

- 4.47.13.1. PERFORMS MINOR MAINTENANCE.
- 4.47.13.2. PERFORMS MAJOR MAINTENANCE.
- 4.47.14. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.47.15. ACCOMPLISHES TCTO.
- 4.47.16. PREPARES EQUIPMENT FOR STORAGE.
- 4.47.17. PERFORMS CORROSION CONTROL.
- 4.47.18. PERFORMS SERVICE INSPECTION.
- 4.47.19. REFUELS UNIT.
- 4.48. PERFORMS TURBINE DRIVEN GENERATOR SET INSPECTION (EMU12E):
  - 4.48.1. INSPECTS UNIT.
  - 4.48.2. INSPECTS TRAILER AND HOUSING.
  - 4.48.3. INSPECTS FUEL SYSTEM.
  - 4.48.4. INSPECTS BATTERY CHARGING CIRCUIT.
  - 4.48.5. INSPECTS ELECTRICAL SYSTEM.
  - 4.48.6. INSPECTS TURBINE ASSEMBLY.
  - 4.48.7. PERFORMS OPERATIONAL CHECK.
  - 4.48.8. CHECKS EXHAUST LOCKOUT SWITCH.
  - 4.48.9. LUBRICATES UNIT.
  - 4.48.10. PERFORMS SPECIAL INSPECTION:
    - 4.48.10.1. DRAINS AND REFILLS ENGINE OIL.
    - 4.48.10.2. REPLACES OIL FILTER AND SEAL.
  - 4.48.11. PERFORMS UNSCHEDULED MAINTENANCE:
    - 4.48.11.1. PERFORMS MINOR MAINTENANCE.
    - 4.48.11.2. PERFORMS MAJOR MAINTENANCE.
  - 4.48.12. PERFORMS ACCEPTANCE INSPECTION AND TEST.
  - 4.48.13. ACCOMPLISHES TCTO.
  - 4.48.14. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.

- 4.48.15. PERFORMS CORROSION CONTROL.
- 4.48.16. PERFORMS SERVICE INSPECTION.
- 4.48.17. REFUELS UNIT.
- 4.49. PERFORMS LOAD BANK INSPECTION (AM24T-8):
  - 4.49.1. INSPECTS UNIT.
  - 4.49.2. INSPECTS TRAILER AND HOUSING. Checks instrument glass, security of switch mounting, operability of toggle, and checks rotary switch, security cable connector, and tire for damage.
  - 4.49.3. PERFORMS PERIODIC INSPECTION. Cleans cabinet housing, trailer and running gear, metal screen, test set interior; checks door, panel, and hatch for proper positioning and corrosion; checks and cleans transformer, switch meter of lower AC panel, and meter of lower DC control panel; and calibrates unit when doing preventive maintenance.
  - 4.49.4. LUBRICATES UNIT. Greases fitting and tie rod; oils drawbar, linkage, brake linkage, door hinge, and fastener to reduce friction wear.
  - 4.49.5. PERFORMS MAINTENANCE ON TEST SET.
  - 4.49.6. PERFORMS SPECIAL INSPECTION:
    - 4.49.6.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
    - 4.49.6.2. CHECKS AXLE SPINDLE.
  - 4.49.7. PERFORMS UNSCHEDULED MAINTENANCE:
    - 4.49.7.1. PERFORMS MINOR MAINTENANCE.
    - 4.49.7.2. PERFORMS MAJOR MAINTENANCE.
  - 4.49.8. PERFORMS ACCEPTANCE INSPECTION AND TEST.
  - 4.49.9. ACCOMPLISHES TCTO.
  - 4.49.10. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
  - 4.49.11. PERFORMS CORROSION CONTROL.
  - 4.49.12. PERFORMS SERVICE INSPECTION.
- 4.50. PERFORMS AIR COMPRESSOR-HIGH PRESSURE INSPECTION (MC-11):
  - 4.50.1. INSPECTS UNIT.

4.50.2. INSPECTS TRAILER AND HOUSING. Inspects frame, axle, tire, tow bar looseness, tie rod, spring, pintle hook, locking device, tie down, storage rack, brake linkage, hinge, latch, door, panel, and shock absorber for wear.

4.50.3. INSPECTS PRIME MOVER. Inspects diesel engine, fuel line, oil line, engine mount, belt tension deflection, sheave/pulley, and crankcase breather sieve for damage. Cleans breather to eliminate wear.

4.50.4. INSPECTS FUEL SYSTEM. Inspects fuel tank, fuel pump, fuel injector, and air cleaner hose to avoid clog.

4.50.5. INSPECTS PANEL GROUP AND CONTROL EQUIPMENT. Inspects fuel gauge, ammeter, air pressure gauge, compressor oil pressure gauge, engine oil pressure gauge, shock mount, electrical component, harness, and hourmeter for damage.

4.50.6. INSPECTS COMPRESSOR AND CONTROL EQUIPMENT. Inspects pressure switch, sheave/pulley, inter-after cooler, safety valve, pipe and tubing, hose and fitting, dehydrator assembly, high pressure filter element, separator filter of first-second-third-state, bleed valve and strainer assembly, compressor mount bolt, compressor crankcase filter, and mechanical filter element for damage.

4.50.7. PERFORMS OPERATIONAL CHECK. Checks the fuel system, lubrication system, intake system, exhaust system, and pneumatic system for leaks. Checks compressor clutch for proper adjustment.

4.50.8. LUBRICATES UNIT. Oils brake handle, linkage, governor control linkage, door latch, and door hinge; cleans and replaces engine oil filter, compressor oil filter element; drains and refills engine oil and compressor oil; cleans and services engine air filter and compressor air inlet filter; and checks oil in clutch and clutch bearing lube fitting to prevent friction.

4.50.9. PERFORMS SPECIAL INSPECTION:

4.50.9.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.50.9.2. LUBRICATES BEARING.

4.50.9.3. INSPECTS AXLE SPINDLE.

4.50.9.4. PERFORMS HYDROSTATIC TEST.

4.50.9.5. INSPECTS NONDESTRUCTIVE INSPECTION (NDI) OF HIGH PRESSURE HOUSING.

4.50.9.6. CHECKS AND ADJUSTS ENGINE TAPPET CLEARANCE.

4.50.9.7. REPLACES MECHANICAL FILTER HEAD AND ELEMENT.

- 4.50.10. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.50.10.1. PERFORMS MINOR MAINTENANCE.
  - 4.50.10.2. PERFORMS MAJOR MAINTENANCE.
- 4.50.11. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.50.12. ACCOMPLISHES TCTO.
- 4.50.13. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.
- 4.50.14. PERFORMS CORROSION CONTROL.
- 4.50.15. PERFORMS SERVICE INSPECTION.
- 4.50.16. REFUELS UNIT.
- 4.51. PERFORMS AIR COMPRESSOR-HIGH PRESSURE (DIESEL) INSPECTION (MC-1A):
  - 4.51.1. INSPECTS UNIT.
  - 4.51.2. INSPECTS TRAILER AND HOUSING.
  - 4.51.3. INSPECTS PRIME MOVER.
  - 4.51.4. INSPECTS FUEL SYSTEM.
  - 4.51.5. INSPECTS PANEL GROUP AND CONTROL EQUIPMENT.
  - 4.51.6. INSPECTS COMPRESSOR AND CONTROL EQUIPMENT.
  - 4.51.7. PERFORMS OPERATIONAL CHECK.
  - 4.51.8. LUBRICATES UNIT.
  - 4.51.9. PERFORMS SPECIAL INSPECTION:
    - 4.51.9.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
    - 4.51.9.2. LUBRICATES BEARING.
    - 4.51.9.3. INSPECTS AXLE SPINDLE.
    - 4.51.9.4. PERFORMS HYDROSTATIC TEST.
    - 4.51.9.5. INSPECTS NDI OF HIGH PRESSURE HOUSING.
    - 4.51.9.6. CHECKS AND ADJUSTS ENGINE TAPPET CLEARANCE.
    - 4.51.9.7. REPLACES MECHANICAL FILTER HEAD AND ELEMENT.
  - 4.51.10. PERFORMS UNSCHEDULED MAINTENANCE:

- 4.51.10.1. PERFORMS MINOR MAINTENANCE.
- 4.51.10.2. PERFORMS MAJOR MAINTENANCE.
- 4.51.11. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.51.12. ACCOMPLISHES TCTO.
- 4.51.13. PREPARES EQUIPMENT FOR SHIPMENT OR STORAGE.
- 4.51.14. PERFORMS CORROSION CONTROL.
- 4.51.15. PERFORMS SERVICE INSPECTION.
- 4.51.16. REFUELS UNIT.
- 4.52. PERFORMS AIR COMPRESSOR-HIGH PRESSURE (GAS) INSPECTION (MC-1A):
  - 4.52.1. INSPECTS UNIT.
  - 4.52.2. INSPECTS TRAILER AND HOUSING. Inspects frame, axle, tire, tow bar looseness, tie rod, spring, pintle hook and locking device, tie down, storage rack, brake linkage, hinge, latch, door, panel, and shock absorber for damage.
  - 4.52.3. INSPECTS PRIME MOVER. Inspects gas engine motor fuel and oil line, engine mount, belt tension deflection, sheave/pulley, crankcase, fuel system, fuel tank, fuel pump, carburetor, and air cleaner hose for damage.
  - 4.52.4. INSPECTS PANEL GROUP AND CONTROL EQUIPMENT. Inspects fuel gauge, ammeter, air pressure gauge, compressor oil pressure gauge, engine oil pressure gauge, shock mount, and electrical component and harness for damage.
  - 4.52.5. INSPECTS COMPRESSOR AND CONTROL EQUIPMENT. Inspects pressure switch, sheave pulley, inter-after cooler, safety valve, pipe, tubing, hose, fitting dehydrator assembly, high pressure filter element, air oil separator pad first-second-third state, first-second-third state bleed valve, strainer assembly, compressor mount bolt, compressor crankcase filter, and mechanical filter element for damage.
  - 4.52.6. PERFORMS OPERATIONAL CHECK. Checks for leak in engine, engine compressor lubrication system, fuel system, intake system, exhaust system; and compressor clutch for proper adjustment and operation.
  - 4.52.7. LUBRICATES UNIT. Oils brake handle, linkage, governor control linkage, latch and door hinge; greases lubricating fitting; cleans and replaces engine oil filter and compressor oil filter element; drains and refills engine oil and compressor oil; cleans and services engine air filter and compressor air

inlet filter; and checks oil in clutch and clutch bearing lube fitting; and services clutch to eliminate excessive friction.

4.52.8. PERFORMS SPECIAL INSPECTION:

4.52.8.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.52.8.2. INSPECTS AXLE SPINDLE.

4.52.8.3. INSPECTS HYDROSTATIC TEST AIR RECEIVER, HOSE, AND ALUMINUM DEHYDRATOR.

4.52.8.4. PERFORMS NDI OF HIGH PRESSURE HOUSING.

4.52.8.5. REPLACES MECHANICAL FILTER HEAD AND ELEMENT.

4.52.9. PERFORMS UNSCHEDULED MAINTENANCE:

4.52.9.1. PERFORMS MINOR MAINTENANCE.

4.52.9.2. PERFORMS MAJOR MAINTENANCE.

4.52.10. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.52.11. ACCOMPLISHES TCTO.

4.52.12. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.

4.52.13. PERFORMS CORROSION CONTROL.

4.52.14. PERFORMS SERVICE INSPECTION.

4.52.15. REFUELS UNIT.

4.53. PERFORMS AIR COMPRESSOR-HIGH PRESSURE (GAS) INSPECTION (MC-11):

4.53.1. INSPECTS UNIT.

4.53.2. INSPECTS TRAILER AND HOUSING.

4.53.3. INSPECTS PRIME MOVER.

4.53.4. INSPECTS PANEL GROUP AND CONTROL EQUIPMENT.

4.53.5. INSPECTS COMPRESSOR AND CONTROL EQUIPMENT.

4.53.6. PERFORMS OPERATIONAL CHECK.

4.53.7. LUBRICATES UNIT.

4.53.8. PERFORMS SPECIAL INSPECTION:

4.53.8.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

- 4.53.8.2. INSPECTS AXLE SPINDLE.
- 4.53.8.3. INSPECTS HYDROSTATIC TEST AIR RECEIVER, HOSE, AND TESTS ALUMINUM DEHYDRATOR.
- 4.53.8.4. PERFORMS NDI OF HIGH PRESSURE HOUSING.
- 4.53.8.5. REPLACES MECHANICAL FILTER HEAD AND ELEMENT.
- 4.53.9. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.53.9.1. PERFORMS MINOR MAINTENANCE.
  - 4.53.9.2. PERFORMS MAJOR MAINTENANCE.
- 4.53.10. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.53.11. ACCOMPLISHES TCTO.
- 4.53.12. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.
- 4.53.13. PERFORMS CORROSION CONTROL.
- 4.53.14. PERFORMS SERVICE INSPECTION.
- 4.53.15. REFUELS UNIT.
- 4.54. PERFORMS AIR COMPRESSOR-HIGH PRESSURE (GAS) INSPECTION (MC-1):
  - 4.54.1. INSPECTS UNIT.
  - 4.54.2. INSPECTS TRAILER AND HOUSING.
  - 4.54.3. INSPECTS PRIME MOVER.
  - 4.54.4. INSPECTS PANEL GROUP AND CONTROL EQUIPMENT.
  - 4.54.5. INSPECTS COMPRESSOR AND CONTROL EQUIPMENT.
  - 4.54.6. PERFORMS OPERATIONAL CHECK.
  - 4.54.7. LUBRICATES UNIT.
  - 4.54.8. PERFORMS SPECIAL INSPECTION:
    - 4.54.8.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
    - 4.54.8.2. INSPECTS AXLE SPINDLE.
    - 4.54.8.3. INSPECTS HYDROSTATIC TEST AIR RECEIVER, HOSE, AND ALUMINUM DEHYDRATOR.

- 4.54.8.4. INSPECTS VALVE SAFETY.
- 4.54.8.5. PERFORMS NDI OF HIGH PRESSURE HOUSING.
- 4.54.8.6. REPLACES MECHANICAL FILTER HEAD AND ELEMENT.
- 4.54.9. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.54.9.1. PERFORMS MINOR MAINTENANCE.
  - 4.54.9.2. PERFORMS MAJOR MAINTENANCE.
- 4.54.10. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.54.11. ACCOMPLISHES TCTO.
- 4.54.12. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.54.13. PERFORMS CORROSION CONTROL.
- 4.54.14. PERFORMS SERVICE INSPECTION.
- 4.54.15. REFUELS UNIT.
- 4.55. PERFORMS AIR COMPRESSOR-HIGH PRESSURE (ELECTRIC) INSPECTION (MB-1):
  - 4.55.1. INSPECT UNIT.
  - 4.55.2. INSPECTS TRAILER AND HOUSING. Inspects frame, axle, tire, tow bar looseness, tie rod, spring, pintle hook, locking device, tie down, storage rack, brake linkage, hinge, latch, door, panel, and shock absorber for damage.
  - 4.55.3. INSPECTS PRIME MOVER. Inspects electric motor, electrical connection, pulley, belt tension deflection, electrical system damage - external power cable bare wire, motor control, panel group, and panel control for corrosion.
  - 4.55.4. INSPECTS COMPRESSOR AND CONTROL EQUIPMENT. Inspects pressure switch, inter-after cooler, sheave/pulley, safety valve, pipe, tubing, hose and fitting, dehydrator assembly, high pressure filter element, air oil separator pad/filter, bleed valve, strainer assembly, compressor crankcase filter, and mechanical filter element for wear.
  - 4.55.5. PERFORMS OPERATIONAL CHECK. Checks for leak in engine system, compressor lubrication system, fuel system, intake system, exhaust system; and checks compressor clutch for proper adjustment.
  - 4.55.6. LUBRICATES UNIT. Oils brake handle, linkage, latch, and door hinge; greases front wheel swivel and pintle hook; cleans and replaces compressor oil filter; cleans, services, and

replaces compressor air inlet filter; and drains and refills compressor oil to prevent friction damage.

4.55.7. PERFORMS SPECIAL INSPECTION:

4.55.7.1. LUBRICATES WHEEL BEARING.

4.55.7.2. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.55.7.3. INSPECTS AXLE SPINDLE.

4.55.8. PERFORMS UNSCHEDULED MAINTENANCE:

4.55.8.1. PERFORMS MINOR MAINTENANCE.

4.55.8.2. PERFORMS MAJOR MAINTENANCE.

4.55.9. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.55.10. ACCOMPLISHES TCTO.

4.55.11. PREPARE EQUIPMENT FOR SHIPMENT/STORAGE.

4.55.12. PERFORMS CORROSION CONTROL.

4.55.13. PERFORMS SERVICE INSPECTION.

4.56. PERFORMS AIR COMPRESSOR-LOW PRESSURE (ELECTRIC) INSPECTION (MB-2/2A):

4.56.1. INSPECTS UNIT.

4.56.2. INSPECTS TRAILER AND HOUSING. Inspects frame, axle, tire, tow bar looseness, tie rod, spring, pintle hook, lock device, tie down, storage rack, brake linkage, hinge, latch, door, panel, and shock absorber assembly for wear.

4.56.3. INSPECTS PRIME MOVER. Checks motor, mount bolt, drive belt, and sheave/pulley for serviceability.

4.56.4. PERFORMS OPERATIONAL CHECK. Checks system leak in motor/compressor lubrication, pneumatic system/cooler and proper operation of air regulator, unloader, lower pressure cut-off, electrical system, electric motor driven - conjunction box, and external power cable condition.

4.56.5. INSPECTS CONTROL EQUIPMENT AND COMPRESSOR. Checks safety valve for broken seal; and checks inter-after pressure switch, shock mount, compressor mount, compressor bolt, line, fitting, and hose proper for operation.

4.56.6. INSPECTS LINE FILTER, BLEEDER VALVE, AND SEPARATOR FILTER FOR DAMAGE.

- 4.56.7. INSPECTS CHASSIS AND RUNNING GEAR. Inspects tow bar, tie rod, king pin, axle, tire, and wheel for proper assembly.
- 4.56.8. LUBRICATES UNIT. Oils brake handle; greases fitting; lubricates air intake engine; and cleans and replaces dry type and wet type intake to prevent blocked passage.
- 4.56.9. OILS, CLEANS, AND REPLACES SEPARATOR FILTER PAD.
- 4.56.10. CLEANS AND REPLACES DRY TYPE INTAKE.
- 4.56.11. PERFORMS SPECIAL INSPECTION:
  - 4.56.11.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
  - 4.56.11.2. CHECKS ENGINE COOLING SYSTEM AND SERVICES.
  - 4.56.11.3. PERFORMS HYDROSTATIC TEST.
  - 4.56.11.4. CHECKS AXLE SPINDLE.
  - 4.56.11.5. CHECKS BRAKE ASSEMBLY.
- 4.56.12. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.56.12.1. PERFORMS MINOR MAINTENANCE.
  - 4.56.12.2. PERFORMS MAJOR MAINTENANCE.
- 4.56.2. INSPECTS TRAILER AND HOUSING. Inspects frame, axle, tire, tow bar looseness, tie rod, spring, pintle hook, lock device, tie down, storage rack, brake linkage, hinge, latch, door, panel, and shock absorber assembly for wear.
- 4.56.3. INSPECTS PRIME MOVER. Checks motor, mount bolt, drive belt, and sheave/pulley for serviceability.
- 4.56.4. PERFORMS OPERATIONAL CHECK. Checks system leak in motor/compressor lubrication, pneumatic system/cooler and proper operation of air regulator, unloader, lower pressure cut-off, electrical system, electric motor driven - conjunction box, and external power cable condition.
- 4.56.5. INSPECTS CONTROL EQUIPMENT AND COMPRESSOR. Checks safety valve for broken seal; and checks inter-after pressure switch, shock mount, compressor mount, compressor bolt, line, fitting, and hose proper for operation.
- 4.56.6. INSPECTS LINE FILTER, BLEEDER VALVE, AND SEPARATOR FILTER FOR DAMAGE.
- 4.56.7. INSPECTS CHASSIS AND RUNNING GEAR. Inspects tow bar, tie rod, king pin, axle, tire, and wheel for proper assembly.

4.56.8. LUBRICATES UNIT. Oils brake handle; greases fitting; lubricates air intake engine; and cleans and replaces dry type and wet type intake to prevent blocked passage.

4.56.9. OILS, CLEANS, AND REPLACES SEPARATOR FILTER PAD.

4.56.10. CLEANS AND REPLACES DRY TYPE INTAKE.

4.56.11. PERFORMS SPECIAL INSPECTION:

4.56.11.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.56.11.2. CHECKS ENGINE COOLING SYSTEM AND SERVICES.

4.56.11.3. PERFORMS HYDROSTATIC TEST.

4.56.11.4. CHECKS AXLE SPINDLE.

4.56.11.5. CHECKS BRAKE ASSEMBLY.

4.56.12. PERFORMS UNSCHEDULED MAINTENANCE:

4.56.12.1. PERFORMS MINOR MAINTENANCE.

4.56.12.2. PERFORMS MAJOR MAINTENANCE.

4.56.13. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.56.14. ACCOMPLISHES TCTO.

4.56.15. PREPARES EQUIPMENT FOR STORAGE OR SHIPMENT.

4.56.16. PERFORMS CORROSION CONTROL.

4.56.17. PERFORMS SERVICE INSPECTION.

4.57. PERFORMS AIR COMPRESSOR-LOW PRESSURE (ELECTRIC) INSPECTION (MB-8):

4.57.1. INSPECTS UNIT.

4.57.2. INSPECTS TRAILER AND HOUSING.

4.57.3. INSPECTS PRIME MOVER.

4.57.4. PERFORMS OPERATIONAL CHECK.

4.57.5. INSPECTS CONTROL EQUIPMENT AND COMPRESSOR.

4.57.6. INSPECTS LINE FILTER, BLEEDER VALVE, AND SEPARATOR FILTER.

4.57.7. INSPECTS CHASSIS AND RUNNING GEAR.

- 4.57.8. LUBRICATES UNIT.
- 4.57.9. OILS, CLEANS, AND REPLACES SEPARATOR FILTER PAD.
- 4.57.10. CLEANS AND REPLACES DRY TYPE INTAKE.
- 4.57.11. PERFORMS SPECIAL INSPECTION:
  - 4.57.11.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
  - 4.57.11.2. CHECKS ENGINE COOLING SYSTEM AND SERVICE.
  - 4.57.11.3. PERFORMS HYDROSTATIC TEST.
  - 4.57.11.4. CHECKS AXLE SPINDLE.
- 4.57.12. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.57.12.1. PERFORMS MINOR MAINTENANCE.
  - 4.57.12.2. PERFORMS MAJOR MAINTENANCE.
- 4.57.13. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.57.14. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.57.15. PERFORMS CORROSION CONTROL.
- 4.57.16. PERFORMS SERVICE INSPECTION.
- 4.58. PERFORMS AIR COMPRESSOR-LOW PRESSURE ELECTRIC INSPECTION (AFE32A-1):
  - 4.58.1. INSPECTS UNIT.
  - 4.58.2. INSPECTS TRAILER AND HOUSING.
  - 4.58.3. INSPECTS PRIME MOVER.
  - 4.58.4. PERFORMS OPERATIONAL CHECK.
  - 4.58.5. INSPECTS CONTROL EQUIPMENT AND COMPRESSOR.
  - 4.58.6. INSPECTS LINE FILTER, BLEEDER VALVE, AND SEPARATOR FILTER.
  - 4.58.7. INSPECTS CHASSIS AND RUNNING GEAR.
  - 4.58.8. LUBRICATES UNIT.
  - 4.58.9. OILS, CLEANS, AND REPLACES SEPARATOR FILTER PAD.
  - 4.58.10. CLEANS AND REPLACES DRY TYPE INTAKE.
  - 4.58.11. PERFORMS SPECIAL INSPECTION:

- 4.58.11.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
- 4.58.11.2. CHECKS ENGINE COOLING SYSTEM AND SERVICES.
- 4.58.11.3. PERFORMS HYDROSTATIC TEST.
- 4.58.11.4. CHECKS AXLE.
- 4.58.12. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.58.12.1. PERFORMS MINOR MAINTENANCE.
  - 4.58.12.2. PERFORMS MAJOR MAINTENANCE.
- 4.58.13. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.58.14. ACCOMPLISHES TCTO.
- 4.58.15. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.58.16. PERFORMS CORROSION CONTROL.
- 4.58.17. PERFORMS SERVICE INSPECTION.
- 4.59. PERFORMS AIR COMPRESSOR-LOW PRESSURE ELECTRIC INSPECTION (20-900/7):
  - 4.59.1. INSPECTS UNIT.
  - 4.59.2. INSPECTS TRAILER AND HOUSING.
  - 4.59.3. INSPECTS PRIME MOVER.
  - 4.59.4. PERFORMS OPERATIONAL CHECK.
  - 4.59.5. INSPECTS CONTROL EQUIPMENT AND COMPRESSOR.
  - 4.59.6. INSPECTS LINE FILTER, BLEEDER VALVE, AND SEPARATOR FILTER.
  - 4.59.7. INSPECTS CHASSIS AND RUNNING GEAR.
  - 4.59.8. LUBRICATES UNIT.
  - 4.59.9. OILS, CLEANS, AND REPLACES SEPARATOR FILTER PAD.
  - 4.59.10. CLEANS AND REPLACES DRY TYPE INTAKE.
  - 4.59.11. PERFORMS SPECIAL INSPECTION:
    - 4.59.11.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
    - 4.59.11.2. PERFORMS HYDROSTATIC TEST.

- 4.59.12. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.59.12.1. PERFORMS MINOR MAINTENANCE.
  - 4.59.12.2. PERFORMS MAJOR MAINTENANCE.
- 4.59.13. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.59.14. ACCOMPLISHES TCTO.
- 4.59.15. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.59.16. PERFORMS CORROSION CONTROL.
- 4.59.17. PERFORMS SERVICE INSPECTION.
- 4.60. PERFORMS AIR COMPRESSOR-LOW PRESSURE (ELECTRIC) INSPECTION (MB-5):
  - 4.60.1. INSPECTS UNIT.
  - 4.60.2. INSPECTS TRAILER AND HOUSING.
  - 4.60.3. INSPECTS PRIME MOVER.
  - 4.60.4. PERFORMS OPERATIONAL CHECK.
  - 4.60.5. INSPECTS CONTROL EQUIPMENT AND COMPRESSOR.
  - 4.60.6. INSPECTS LINE FILTER, BLEEDER VALVE, AND SEPARATOR FILTER.
  - 4.60.7. INSPECTS CHASSIS AND RUNNING GEAR.
  - 4.60.8. LUBRICATES UNIT.
  - 4.60.9. OILS, CLEANS, AND REPLACES SEPARATOR FILTER PAD.
  - 4.60.10. CLEANS AND REPLACES DRY TYPE INTAKE.
  - 4.60.11. PERFORMS SPECIAL INSPECTION:
    - 4.60.11.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
    - 4.60.11.2. CHECKS ENGINE COOLING SYSTEM AND SERVICES.
    - 4.60.11.3. PERFORMS HYDROSTATIC TEST.
    - 4.60.11.4. CHECKS AXLE SPINDLE.
  - 4.60.12. PERFORMS UNSCHEDULED MAINTENANCE:
    - 4.60.12.1. PERFORMS MINOR MAINTENANCE.
    - 4.60.12.2. PERFORMS MAJOR MAINTENANCE.

- 4.60.13. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.60.14. ACCOMPLISHES TCTO.
- 4.60.15. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.60.16. PERFORMS CORROSION CONTROL.
- 4.60.17. PERFORMS SERVICE INSPECTION.
- 4.61. PERFORMS AIR COMPRESSOR-LOW PRESSURE (ELECTRIC) INSPECTION (MB-9):
  - 4.61.1. INSPECTS UNIT.
  - 4.61.2. INSPECTS TRAILER AND HOUSING.
  - 4.61.3. INSPECTS PRIME MOVER.
  - 4.61.4. PERFORMS OPERATIONAL CHECK.
  - 4.61.5. INSPECTS CONTROL EQUIPMENT AND COMPRESSOR.
  - 4.61.6. INSPECTS LINE FILTER, BLEEDER VALVE, AND SEPARATOR FILTER.
  - 4.61.7. INSPECTS CHASSIS AND RUNNING GEAR.
  - 4.61.8. LUBRICATES UNIT.
  - 4.61.9. OILS, CLEANS, AND REPLACES SEPARATOR FILTER PAD.
  - 4.61.10. CLEANS AND REPLACES DRY TYPE INTAKE.
  - 4.61.11. PERFORMS SPECIAL INSPECTION:
    - 4.61.11.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
    - 4.61.11.2. CHECKS ENGINE COOLING SYSTEM AND SERVICES.
    - 4.61.11.3. PERFORMS HYDROSTATIC TEST.
    - 4.61.11.4. CHECKS AXLE SPINDLE.
  - 4.61.12. PERFORMS UNSCHEDULED MAINTENANCE:
    - 4.61.12.1. PERFORMS MINOR MAINTENANCE.
    - 4.61.12.2. PERFORMS MAJOR MAINTENANCE.
  - 4.61.13. PERFORMS ACCEPTANCE INSPECTION AND TEST.
  - 4.61.14. ACCOMPLISHES TCTO.

- 4.61.15. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.
- 4.61.16. PERFORMS CORROSION CONTROL.
- 4.61.17. PERFORMS SERVICE INSPECTION.
- 4.62. PERFORMS AIR COMPRESSOR-LOW PRESSURE DIESEL INSPECTION (MC-7)
  - 4.62.1. INSPECTS UNIT.
  - 4.62.2. INSPECTS TRAILER AND HOUSING. Checks motor bolt, drive belt, sheave/pulley, engine mount (bolt), drive belt, hose, and radiator for wear.
  - 4.62.3. INSPECTS PRIME MOVER.
  - 4.62.4. INSPECTS FUEL SYSTEM. Services and replaces fuel filter to prevent clogging.
  - 4.62.5. PERFORMS OPERATIONAL CHECK. Checks systems leak in engine/compressor lubrication, fuel system, intake, exhaust, pneumatic system, cooler, louver, air regulator, unloader, lower pressure cut-off, and brake; and checks electrical system, paint, diesel driven battery electrolyte level, wiring harness, generator/alternator, and starter condition.
  - 4.62.6. INSPECTS PANEL GROUP AND CONTROL. Checks fuel gauge, ammeter, air pressure gauge, engine oil pressure gauge, compressor oil pressure gauge, shock mount bolt, and harness electrical component for damage.
  - 4.62.7. INSPECTS CONTROL EQUIPMENT AND COMPRESSOR. Checks safety valve broken seal, oil cooler, pressure switch, shock mount, compressor mount, compressor bolt, line and fitting, and hose for wear.
  - 4.62.8. INSPECTS AND CLEANS LINE FILTER, BLEEDER VALVE AND SEPARATOR FILTER.
  - 4.62.9. INSPECTS CHASSIS AND RUNNING GEAR SERVICEABILITY. Inspects tow bar, tie rod, king pin, axle, tire, wheel assembly, brake, latch and door hinge for serviceability.
  - 4.62.10. LUBRICATES UNIT. Oils brake handle, linkage, governor control linkage, latch, and door hinge; lubricates air intake engine; cleans and replaces dry type and wet type intake to eliminate excessive friction.
  - 4.62.11. SERVICES SEPARATOR FILTER PAD.
  - 4.62.12. SERVICES ENGINE AND COMPRESSOR INTAKE. Cleans and replaces dry and wet type intake.
  - 4.62.13. PERFORMS SERVICE INSPECTION:

- 4.62.13.1. INSPECTS AND INSTALLS BRAKE AND WHEEL BEARING.
- 4.62.13.2. PERFORMS HYDROSTATIC TEST.
- 4.62.13.3. CHECKS AND SERVICES ENGINE COOLING SYSTEM.
- 4.62.13.4. CHECKS AXLE SPINDLE.
- 4.62.13.5. CHECKS BRAKE ASSEMBLY.
- 4.62.14. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.62.14.1. PERFORMS MINOR MAINTENANCE.
  - 4.62.14.2. PERFORMS MAJOR MAINTENANCE.
- 4.62.15. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.62.16. ACCOMPLISHES TCTO.
- 4.62.17. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.
- 4.62.18. PERFORMS CORROSION CONTROL.
- 4.62.19. PERFORMS SERVICE INSPECTION.
- 4.62.20. REFUELS UNIT.
- 4.63. PERFORMS AIR COMPRESSOR-LOW PRESSURE (GAS) INSPECTION (MC-7):
  - 4.63.1. INSPECTS UNIT.
  - 4.63.2. INSPECTS TRAILER AND HOUSING.
  - 4.63.3. INSPECTS PRIME MOVER SERVICEABILITY. Checks engine mount bolt, drive belt, sheave/pulley, and hose for serviceability.
  - 4.63.4. INSPECTS FUEL SYSTEM SERVICEABILITY. Cleans fuel filter and checks line and fitting for serviceability.
  - 4.63.5. PERFORMS OPERATIONAL CHECK. Checks system for leak in engine/compressor lubrication, and fuel system, intake exhaust, pneumatic system, cooler, louver, air regulator, unloader, lower pressure cut-off, brake, paint, battery electrolyte corrosion level, wiring harness, and generator/alternator; and starts unit to ensure proper operation.
  - 4.63.6. CHECKS PANEL GROUP AND CONTROL. Checks fuel gauge, ammeter, air pressure gauge, engine oil pressure gauge, compressor oil pressure gauge, shock mount bolt, and harness electrical component for wear.

- 4.63.7. INSPECTS CONTROL EQUIPMENT AND COMPRESSOR. Checks safety valve seal, inter-after cooler, oil cooler, pressure switch, shock mount, compressor mount and bolt, line and fitting, and hose for damage and breakage.
- 4.63.8. INSPECTS LINE FILTER, BLEEDER VALVE, AND SEPARATOR FILTER. Cleans filter and strainer assembly to eliminate clogging. Opens and drains bleed valve while inspecting unit.
- 4.63.9. INSPECTS CHASSIS AND RUNNING GEAR. Inspects tow bar, tie rod, king pin, axle, tire, wheel assembly, brake, latch, and door hinge for damage.
- 4.63.10. LUBRICATES UNIT. Oils brake handle, linkage, governor control linkage, latch, and door hinge; greases fitting; and lubricates air intake engine to prevent excessive friction damage.
- 4.63.11. SERVICES SEPARATOR FILTER PAD.
- 4.63.12. SERVICES ENGINE AND COMPRESSOR INTAKE.
- 4.63.13. PERFORMS SPECIAL INSPECTION:
  - 4.63.13.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
  - 4.63.13.2. CHECKS ENGINE COOLING SYSTEM AND SERVICES.
  - 4.63.13.3. PERFORMS HYDROSTATIC TEST.
  - 4.63.13.4. CHECKS AXLE SPINDLE.
- 4.63.14. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.63.14.1. PERFORMS MINOR MAINTENANCE.
  - 4.63.14.2. PERFORMS MAJOR MAINTENANCE.
- 4.63.15. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.63.16. ACCOMPLISHES TCTO.
- 4.63.17. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.63.18. PERFORMS CORROSION CONTROL.
- 4.63.19. PERFORMS SERVICE INSPECTION.
- 4.63.20. REFUELS UNIT.
- 4.64. PERFORMS AIR COMPRESSOR-LOW PRESSURE (GAS) INSPECTION (MC-2A):
  - 4.64.1. INSPECTS UNIT.

- 4.64.2. INSPECTS TRAILER AND HOUSING.
- 4.64.3. INSPECTS PRIME MOVER.
- 4.64.4. INSPECTS FUEL SYSTEM.
- 4.64.5. PERFORMS OPERATIONAL CHECK.
- 4.64.6. CHECKS PANEL GROUP AND CONTROL.
- 4.64.7. INSPECTS CONTROL EQUIPMENT AND COMPRESSOR.
- 4.64.8. INSPECTS LINE FILTER, BLEEDER VALVE, AND SEPARATOR FILTER.
- 4.64.9. INSPECTS CHASSIS AND RUNNING GEAR.
- 4.64.10. LUBRICATES UNIT.
- 4.64.11. SERVICES SEPARATOR FILTER PAD.
- 4.64.12. SERVICES ENGINE AND COMPRESSOR INTAKE.
- 4.64.13. PERFORMS SPECIAL INSPECTION:
  - 4.64.13.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
  - 4.64.13.2. INSPECTS ENGINE COOLING SYSTEM AND SERVICES.
  - 4.64.13.3. PERFORMS HYDROSTATIC TEST.
  - 4.64.13.4. CHECKS AXLE SPINDLE.
- 4.64.14. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.64.14.1. PERFORMS MINOR MAINTENANCE.
  - 4.64.14.2. PERFORMS MAJOR MAINTENANCE.
- 4.64.15. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.64.16. ACCOMPLISHES TCTO.
- 4.64.17. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.
- 4.64.18. PERFORMS CORROSION CONTROL.
- 4.64.19. PERFORMS SERVICE INSPECTION.
- 4.64.20. REFUELS UNIT.
- 4.65. PERFORMS TRAILER MOUNTED (GAS TURBINE) INSPECTION (MA-1A):

4.65.1. INSPECTS UNIT.

4.65.2. INSPECTS TRAILER ASSEMBLY AND HOUSING. Inspects chassis body, tire brake lever, brake linkage, tie rod, tow bar, pintle box assembly, door, door hinge, and exhaust box assembly for serviceability.

4.65.3. INSPECTS GAS TURBINE AND ENCLOSURE. Inspects Marman clamp, intake system, exhaust system, engine bleed ring assembly, clamp safety wire, intake door, and exhaust door for cracks and wear.

4.65.4. INSPECTS ELECTRICAL SYSTEM. Inspects starter, generator, wiring harness, wiring harness connection, battery level, and battery box for corrosion.

4.65.5. INSPECTS FUEL SYSTEM. Cleans and replaces filter; checks fuel tank gauge operation.

4.65.6. INSPECTS ACCESSORY EQUIPMENT. Checks the bleed air hose, scuff cover, quick disconnect assembly, and moving part of assembly for proper operation.

4.65.7. PERFORMS OPERATIONAL CHECK. Performs operational check in accordance with applicable technical order.

4.65.8. LUBRICATES UNIT. Greases tie rod end, spindle and yoke, pintle hitch, and tongue pivot bolt; and oils tow bar hinge bolt and torsion tube to reduce friction. + 4.65.9. PERFORMS SPECIAL INSPECTION:

4.65.9.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.65.9.2. CHECKS AXLE SPINDLE.

4.65.10. PERFORMS UNSCHEDULED MAINTENANCE:

4.65.10.1. PERFORMS MINOR MAINTENANCE.

4.65.10.2. PERFORMS MAJOR MAINTENANCE.

4.65.11. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.65.12. ACCOMPLISHES TCTO.

4.65.13. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.

4.65.14. PERFORMS CORROSION CONTROL.

4.65.15. PERFORMS SERVICE INSPECTION.

4.65.16. REFUELS UNIT.

4.66. PERFORMS PORTABLE (GAS) BLOWER AND FAN INSPECTION (A-1):

- 4.66.1. INSPECTS UNIT.
- 4.66.2. INSPECTS TRAILER AND HOUSING.
- 4.66.3. CHECKS ENGINE DRIVE. Checks condition of engine and fuel tank.
- 4.66.4. CHECKS BLOWER ASSEMBLY. Checks condition of air inlet/outlet screen and housing.
- 4.66.5. PERFORMS OPERATIONAL CHECK. Checks unit IAW TO and checks for leak in air, oil, fuel, exhaust, and intake manifold.
- 4.66.6. LUBRICATES UNIT. Lubricates blower, engine, and accessory drive gear to prevent damage.
- 4.66.7. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.66.7.1. PERFORMS MINOR MAINTENANCE.
  - 4.66.7.2. PERFORMS MAJOR MAINTENANCE.
- 4.66.8. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.66.9. ACCOMPLISHES TCTO.
- 4.66.10. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.
- 4.66.11. PERFORMS CORROSION CONTROL.
- 4.66.12. PERFORMS SERVICE INSPECTION.
- 4.66.13. REFUELS UNIT.
- 4.67. PERFORMS BLOWER (PORTABLE BLOWER AND FAN) INSPECTION (MA-1):
  - 4.67.1. INSPECTS UNIT.
  - 4.67.2. INSPECTS TRAILER AND HOUSING. Checks tire, chassis, ground real, and hand brake assembly for wear.
  - 4.67.3. INSPECTS MOTOR DRIVEN (ONLY). Checks housing motor, junction box, power cable, and plug for wear.
  - 4.67.4. INSPECTS BLOWER ASSEMBLY. Checks air inlet screen/housing and air outlet housing for wear.
  - 4.67.5. PERFORMS OPERATIONAL CHECK.
  - 4.67.6. LUBRICATES UNIT. Lubricates blower, blower accessory drive, and air filter; and oils wheel axle to prevent friction damage.
  - 4.67.7. PERFORMS UNSCHEDULED MAINTENANCE:

- 4.67.7.1. PERFORMS MINOR MAINTENANCE.
- 4.67.7.2. PERFORMS MAJOR MAINTENANCE.
- 4.67.8. PERFORMS ACCEPTANCE INSPECT AND TEST.
- 4.67.9. ACCOMPLISHES TCTO.
- 4.67.10. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.
- 4.67.11. PERFORMS CORROSION CONTROL.
- 4.67.12. PERFORMS SERVICE INSPECTION.
- 4.68. PERFORMS DEICER INSPECTION:
  - 4.68.1. INSPECTS UNIT.
  - 4.68.2. INSPECTS TRAILER AND HOUSING. Checks for damage that will affect serviceability.
  - 4.68.3. INSPECTS COMPRESSOR ASSEMBLY. Checks belt tension, safety relief valve, and shock mount for damage.
  - 4.68.4. INSPECTS ENGINE ASSEMBLY. Checks air filter for damage and replaces oil in filter bowl.
  - 4.68.5. PERFORMS OPERATIONAL CHECK. Checks fuel system, oil system, water system, and pneumatic system for leak.
  - 4.68.6. LUBRICATES UNIT. Greases chassis and changes engine and compressor oil to prevent excessive friction wear.
  - 4.68.7. PERFORMS SPECIAL INSPECTION:
    - 4.68.7.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
    - 4.68.7.2. CHECKS AXLE SPINDLE.
    - 4.68.7.3. PERFORMS HYDROSTATIC TEST.
  - 4.68.8. PERFORMS ACCEPTANCE INSPECTION AND TEST.
  - 4.68.9. ACCOMPLISHES TCTO.
  - 4.68.10. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.
  - 4.68.11. PERFORMS CORROSION CONTROL.
  - 4.68.12. PERFORMS SERVICE INSPECTION.
- 4.69. PERFORMS BOMB LIFT INSPECTION (MJ-1B):
  - 4.69.1. INSPECTS UNIT.

4.69.2. CHECKS FRAME AND RUNNING GEAR FOR SECURITY/CONDITION. Checks front and rear rim assembly, front fender, rear wheel spindle, rear wheel hub, drive shaft, bottom plate, rear wheel alignment, front and rear tire, rear wheel brake, master cylinder fluid level, and parking brake for security and condition. Inspects disc brake linkage for wear. Replaces and checks brake for wear. Removes rear wheel cap plate to check condition.

4.69.3. INSPECTS STEERING SYSTEM. Inspects steering wheel, steering shaft, steering sector, drag link, tie rod, Pittman assembly, and end tie rod for damage.

4.69.4. INSPECTS SHEET METAL ASSEMBLY. Inspects engine top cover, rear cover, rear left hand (LH) fender, operator seat top, rear right hand (RH) fender, fuel tank, heat exchanger cover, heat shield, and fuel filter for condition. Drains water/sediment and cleans sediment filter to prevent blocked passage.

4.69.5. INSPECTS LIFT ARM AND TABLE ASSEMBLY. Inspects lift arm LH rear, arm RH rear, arm LH forward (FWD), arm RH FWD, shaft FWD arm, mount cylinder, plate base, plate longitudinal, plate lateral, plate center rotation, plate tilt, ball bearing table, stop table, pad table brake, load binder assembly, and roller bomb support for condition.

4.69.6. INSPECTS ENGINE ASSEMBLY. Inspects cylinder head, manifold, intake and exhaust, flywheel shroud, governor, fuel pump, carburetor, throttle linkage, air cleaner, muffler, engine mount, oil pressure gauge, tachometer, and throttle and control of or wear.

4.69.7. INSPECTS AND SERVICES SPARK ARRESTOR. Installs clean out plug and cleans spark arrestor to proper charge.

4.69.8. INSPECTS HYDROSTATIC DRIVE. Inspects coupling flexible alignment, hydrostatic pump, pump drive pulley, pump drive belt, hydrostatic motor, high pressure hose deterioration, filter assembly heat exchanger, pedal accelerator, accelerator control lever, by-pass valve, and center mechanism for condition. Removes and replaces element in accordance with TO.

4.69.9. INSPECTS HYDROSTATIC SYSTEM. Inspects gauge system press, main control valve, table control valve, relief valve, counterbalance valve, main lift arm cylinder, longitudinal cylinder, lateral cylinder, cylinder tilt, o ring center plate, center manifold, tilt cylinder mount, hand pump, reservoir, reservoir filter cleanliness, steering pump and pressure compensated pump for condition.

4.69.10. INSPECTS ELECTRICAL SYSTEM. Inspects battery and battery box; cleans battery and battery box; repaints battery box; and checks ammeter, switch and ignition, starter switch,

light switch, light lens, ignition coil and light connection, distributor assembly, spark plug, solenoid and starter, wiring harness, accelerator stop switch, and fuse block for security and condition.

4.69.11. PERFORMS OPERATIONAL CHECK. Starts unit and observes operation of each stage from start to shut off. Checks fuel, oil, hydraulic, and exhaust leaks during observation.

4.69.12. LUBRICATES UNIT. Lubricates differential; checks oil level, drive shaft universal, universal housing, hydrostatic system transmission fluid, tie rod end, pivot bearing cylinder, tachometer, and engine crankcase to prevent friction wear; and drains and refills crankcase oil to reduce friction. Lubricates and cleans engine air filter to prevent clogging.

4.69.12.1. LUBRICATES CENTER ROTATION PLATE AND REAR TABLE BEARING.

4.69.12.2. LUBRICATES HYDRAULIC SYSTEM.

4.69.12.3. LUBRICATES ACCELERATOR MECHANISM BALL JOINT PIVOT POINT BUSHING, ETC.

4.69.12.4. LUBRICATES CENTERING MECHANISM.

4.69.13. PERFORMS SPECIAL INSPECTION:

4.69.13.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.

4.69.13.2. REPLACES LIFT CYLINDER HOSE.

4.69.13.3. INSPECTS BRAKE DRUM AND LINING.

4.69.13.4. PERFORMS WEIGHT TEST.

4.69.14. PERFORMS SPARK CHECK. Checks connector, engine acceleration/deceleration, and spark arrestor security and safety.

4.69.15. PERFORMS SERVICE INSPECTION. Reviews form; services unit, parking brake mechanism, instrument lift control valve, and table directional control valve; checks serviceability of exterior unit/panel, wheel, tire, light, engine performance, fuel leaks, oil leaks, hydraulic leaks, and neutral safety switch; and starts unit IAW TO.

4.69.16. PERFORMS UNSCHEDULED MAINTENANCE:

4.69.16.1. PERFORMS MINOR MAINTENANCE.

4.69.16.2. PERFORMS MAJOR MAINTENANCE.

4.69.17. PERFORMS ACCEPTANCE INSPECTION AND TEST.

- 4.69.18. ACCOMPLISHES TCTO.
- 4.69.19. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.
- 4.69.20. PERFORMS CORROSION CONTROL.
- 4.69.21. PERFORMS SERVICE INSPECTION.
- 4.69.22. REFUELS UNIT.
- 4.70. PERFORMS BOMB LIFT INSPECTION (MJ-1A):
  - 4.70.1. INSPECTS UNIT.
  - 4.70.2. CHECKS FRAME AND RUNNING GEAR (SECURITY/CONDITION).
  - 4.70.3. INSPECTS STEERING SYSTEM.
  - 4.70.4. INSPECTS SHEET METAL ASSEMBLY.
  - 4.70.5. INSPECTS LIFT ARM AND TABLE ASSEMBLY.
  - 4.70.6. INSPECTS ENGINE ASSEMBLY.
  - 4.70.7. INSPECTS AND SERVICES SPARK ARRESTOR.
  - 4.70.8. INSPECTS HYDRAULIC DRIVE.
  - 4.70.9. INSPECTS HYDRAULIC SYSTEM.
  - 4.70.10. INSPECTS ELECTRICAL SYSTEM.
  - 4.70.11. PERFORMS OPERATIONAL CHECK.
  - 4.70.12. LUBRICATES UNIT:
    - 4.70.12.1. LUBRICATES CENTER ROTATION PLANT AND REAR TABLE BEARING.
    - 4.70.12.2. LUBRICATES HYDRAULIC SYSTEM.
    - 4.70.12.3. LUBRICATES ACCELERATOR MECHANISM BALL JOINT PIVOT POINT BUSHING, ETC.
    - 4.70.12.4. LUBRICATES CENTERING MECHANISM.
  - 4.70.13. PERFORMS SPECIAL INSPECTION:
    - 4.70.13.1. INSPECTS OR INSTALLS BRAKE AND WHEEL BEARING.
    - 4.70.13.2. REPLACES LIFT CYLINDER HOSE.
    - 4.70.13.3. PERFORMS WEIGHT TEST.
  - 4.70.14. PERFORMS SPARK CHECK.

- 4.70.15. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.70.15.1. PERFORMS MINOR MAINTENANCE.
  - 4.70.15.2. PERFORMS MAJOR MAINTENANCE.
- 4.70.16. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.70.17. ACCOMPLISHES TCTO.
- 4.70.18. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.
- 4.70.19. PERFORMS CORROSION CONTROL.
- 4.70.20. PERFORMS SERVICE INSPECTION.
- 4.70.21. REFUELS UNIT.
- 4.71. PERFORMS BOMB LIFT INSPECTION (MHU-83B):
  - 4.71.1. INSPECTS UNIT.
  - 4.71.2. CHECKS FRAME AND RUNNING GEAR.
  - 4.71.3. INSPECTS STEERING SYSTEM.
  - 4.71.4. INSPECTS SHEET METAL ASSEMBLY.
  - 4.71.5. INSPECTS LIFT ARM AND TABLE ASSEMBLY.
  - 4.71.6. INSPECTS ENGINE ASSEMBLY.
  - 4.71.7. INSPECTS, CLEANS, AND SERVICES SPARK ARRESTOR.
  - 4.71.8. INSPECTS HYDRAULIC DRIVE.
  - 4.71.9. INSPECTS HYDRAULIC SYSTEM.
  - 4.71.10. INSPECTS ELECTRICAL SYSTEM.
  - 4.71.11. PERFORMS OPERATIONAL CHECK.
  - 4.71.12. CHECKS HYDRAULIC.
  - 4.71.13. CHECKS DRIVE TRAIN.
  - 4.71.14. LUBRICATES UNIT.
  - 4.71.15. PERFORMS SPECIAL INSPECTION:
    - 4.71.15.1. INSPECTS OR INSTALLS WHEEL BEARING AND BRAKE.
    - 4.71.15.2. PERFORMS WEIGHT TEST.

- 4.71.16. PERFORMS SPARK CHECK.
- 4.71.17. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.71.17.1. PERFORMS MINOR MAINTENANCE.
  - 4.71.17.2. PERFORMS MAJOR MAINTENANCE.
- 4.71.18. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.71.19. ACCOMPLISHES TCTO.
- 4.71.20. PERFORMS CORROSION CONTROL.
- 4.71.21. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.71.22. PERFORMS SERVICE INSPECTION.
- 4.71.23. REFUELS UNIT.
- 4.72. PERFORMS BOMB LIFT (DIESEL) INSPECTION (MHU-83C):
  - 4.72.1. INSPECTS UNIT.
  - 4.72.2. CHECKS FRAME AND RUNNING GEAR.
  - 4.72.3. INSPECTS STEERING SYSTEM.
  - 4.72.4. INSPECTS SHEET METAL ASSEMBLY.
  - 4.72.5. INSPECTS LIFT ARM AND TABLE ASSEMBLY.
  - 4.72.6. INSPECTS ENGINE ASSEMBLY.
  - 4.72.7. INSPECTS, CLEANS, AND SERVICES SPARK ARRESTOR.
  - 4.72.8. INSPECTS HYDROSTATIC DRIVE.
  - 4.72.9. INSPECTS HYDROSTATIC SYSTEM.
  - 4.72.10. INSPECTS ELECTRICAL SYSTEM.
  - 4.72.11. PERFORMS OPERATIONAL CHECK.
  - 4.72.12. CHECKS DRIVE TRAIN.
  - 4.72.13. LUBRICATES UNIT.
  - 4.72.14. PERFORMS SPECIAL INSPECTION:
    - 4.72.14.1. INSPECTS OR INSTALLS WHEEL BEARING AND BRAKE.
    - 4.72.14.2. PERFORMS WEIGHT TEST.
  - 4.72.15. PERFORMS SPARK CHECK.

- 4.72.16. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.72.16.1. PERFORMS MINOR MAINTENANCE.
  - 4.72.16.2. PERFORMS MAJOR MAINTENANCE.
- 4.72.17. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.72.18. ACCOMPLISHES TCTO.
- 4.72.19. PERFORMS CORROSION CONTROL.
- 4.72.20. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
- 4.72.21. PERFORMS SERVICE INSPECTION.
- 4.72.22. REFUELS UNIT.
- 4.73. PERFORMS COOLING PUMP GROUP INSPECTION (ANAWA-6A):
  - 4.73.1. INSPECTS UNIT.
  - 4.73.2. INSPECTS CHASSIS, FRAME, AND TRAILER.
  - 4.73.3. CHECKS WHEEL ASSEMBLY.
  - 4.73.4. INSPECTS TIRE.
  - 4.73.5. INSPECTS CABLE.
  - 4.73.6. INSPECTS ELECTRICAL SYSTEM.
  - 4.73.7. INSPECTS INTERNAL WIRING.
  - 4.73.8. INSPECTS MECHANICAL PART.
  - 4.73.9. INSPECTS PRESSURE AND LIQUID GAUGE.
  - 4.73.10. INSPECTS SWITCH AND CIRCUIT BREAKER.
  - 4.73.11. INSPECTS QUICK DISCONNECT COUPLING.
  - 4.73.12. INSPECTS OIL IN GEAR BOX.
  - 4.73.13. INSPECTS FILTER. Cleans air-maze dry type filter; replaces 5 Micron filter; removes and replaces 10 Micron filter; and cleans or replaces 125 Micron return filter and purges tank filter to prevent clogging and excessive moisture.
  - 4.73.14. PERFORMS LUBRICATION. Adds oil to pump motor gear box; lubricates spring on trailer; greases hand truck and truck grease fitting; and performs operational check test.
  - 4.73.15. PERFORMS SPECIAL INSPECTION:

4.73.16. PERFORMS UNSCHEDULED MAINTENANCE:

4.73.16.1. PERFORMS MINOR MAINTENANCE.

4.73.16.2. PERFORMS MAJOR MAINTENANCE.

4.73.17. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.73.18. ACCOMPLISHES TCTO.

4.73.19. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.

4.73.20. PERFORMS CORROSION CONTROL.

4.73.21. PERFORMS SERVICE INSPECTION.

4.73.22. REFUELS UNIT.

4.74. PERFORMS ENGINE DRIVEN WELDER GENERATOR INSPECTION:

4.74.1. INSPECTS UNIT.

4.74.2. LUBRICATES UNIT. Drains and replaces lubricating oil; replaces lubricating oil filter element; cleans air filter water trap; and checks drive belt tension and lubricates rear brush to prevent excess friction wear or damage.

4.74.3. PERFORMS FUEL FILTER ELEMENT MAINTENANCE.

4.74.4. CHECKS AND ADJUSTS VALVE CLEARANCE.

4.74.5. SERVICES ATOMIZER.

4.74.6. PERFORMS SPECIAL INSPECTION.

4.74.7. PERFORMS UNSCHEDULED MAINTENANCE:

4.74.7.1. PERFORMS MINOR MAINTENANCE.

4.74.7.2. PERFORMS MAJOR MAINTENANCE.

4.74.8. PERFORMS ACCEPTANCE INSPECTION AND TEST.

4.74.9. ACCOMPLISHES TCTO.

4.74.10. PREPARES EQUIPMENT FOR SHIPMENT/STORAGE.

4.74.11. PERFORMS CORROSION CONTROL.

4.74.12. PERFORMS SERVICE INSPECTION.

4.74.13. REFUELS UNIT.

4.75. PERFORMS PURGING UNIT INSPECT (GSU-62/M):

- 4.75.1. INSPECTS UNIT.
- 4.75.2. INSPECTS TRAILER AND HOUSING.
- 4.75.3. INSPECTS PRIME MOVER FOR SERVICEABILITY.
- 4.75.4. PERFORMS OPERATIONAL CHECK.
- 4.75.5. INSPECTS CONTROL PANEL GROUP.
- 4.75.6. INSPECTS FILTER.
- 4.75.7. INSPECTS HEATING GROUP.
- 4.75.8. LUBRICATES UNIT.
- 4.75.9. PERFORMS SPECIAL INSPECTION.
- 4.75.10. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.75.10.1. PERFORMS MINOR MAINTENANCE.
  - 4.75.10.2. PERFORMS MAJOR MAINTENANCE.
- 4.75.11. PERFORMS CORROSION CONTROL.
- 4.75.12. PERFORMS SERVICE INSPECTION.
- 4.76. PERFORMS ENGINE MAINTENANCE PLATFORM STAND INSPECTION:
  - 4.76.1. INSPECTS UNIT.
  - 4.76.2. INSPECTS TRAILER AND HOUSING.
  - 4.76.3. LUBRICATES UNIT.
  - 4.76.4. PERFORMS SPECIAL INSPECTION. Inspects or installs brake and wheel bearing.
  - 4.76.5. PERFORMS UNSCHEDULED MAINTENANCE:
    - 4.76.5.1. PERFORMS MINOR MAINTENANCE.
    - 4.76.5.2. PERFORMS MAJOR MAINTENANCE.
  - 4.76.6. PERFORMS ACCEPTANCE INSPECTION AND TEST.
  - 4.76.7. PREPARES EQUIPMENT FOR STORAGE/SHIPMENT.
  - 4.76.8. PERFORMS SERVICE INSPECTION.
- 4.77. PERFORMS SPRAY UNIT INSPECTION (AM32M-18A):
  - 4.77.1. INSPECTS UNIT.

- 4.77.2. INSPECTS TRAILER AND HOUSING.
- 4.77.3. PERFORMS OPERATIONAL CHECK.
- 4.77.4. INSPECTS ENGINE ASSEMBLY.
- 4.77.5. INSPECTS COMPRESSOR ASSEMBLY.
- 4.77.6. LUBRICATES UNIT.
- 4.77.7. PERFORMS SPECIAL INSPECTION. Inspects or installs wheel bearing and brake.
- 4.77.8. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.77.8.1. PERFORMS MINOR MAINTENANCE.
  - 4.77.8.2. PERFORMS MAJOR MAINTENANCE.
- 4.77.9. PERFORMS ACCEPTANCE INSPECTION AND TEST.
- 4.77.10. PERFORMS CORROSION CONTROL.
- 4.77.11. PERFORMS SERVICE INSPECTION.
- 4.77.12. REFUELS UNIT.
- 4.78. PERFORMS SAND BLASTER INSPECTION:
  - 4.78.1. INSPECTS UNIT.
  - 4.78.2. INSPECTS HOUSING.
  - 4.78.3. PERFORMS OPERATIONAL CHECK.
  - 4.78.4. LUBRICATES UNIT.
  - 4.78.5. PERFORMS SPECIAL INSPECTION. Inspects or installs wheel bearing and brake. Checks engine cooling system and services with coolant.
  - 4.78.6. PERFORMS UNSCHEDULED MAINTENANCE:
    - 4.78.6.1. PERFORMS MINOR MAINTENANCE.
    - 4.78.6.2. PERFORMS MAJOR MAINTENANCE.
  - 4.78.7. PERFORMS ACCEPTANCE INSPECTION AND TEST.
  - 4.78.8. PERFORMS CORROSION CONTROL.
- 4.79. PERFORMS OTHER SUPPORT EQUIPMENT INSPECTION:
  - 4.79.1. INSPECTS UNIT.

- 4.79.2. INSPECTS HOUSING.
- 4.79.3. PERFORMS PERIODIC INSPECTION.
- 4.79.4. PERFORMS SPECIAL INSPECTION.
- 4.79.5. PERFORMS UNSCHEDULED MAINTENANCE:
  - 4.79.5.1. PERFORMS MINOR MAINTENANCE.
  - 4.79.5.2. PERFORMS MAJOR MAINTENANCE
- 4.79.6. PERFORMS CORROSION CONTROL
- 4.79.7. PERFORMS SERVICE INSPECTION
- 4.79.8. REFUELS UNIT

INDIRECT: Indirect work involves those tasks that are not readily identifiable with the work center's specific product or service. The major categories of Standard Indirect work are Supervision, Administration, Meetings, Training, Supply, Equipment Maintenance, and Cleanup. See AMFS OOAA for Standard Indirect Description.

STANDARD MANPOWER TABLE														
WORK CENTER TITLE/CODE			STANDARD APPLICABILITY MANHOUR RANGE											
Aerospace Ground Equipment 2340			537.67 - 2914.43											
AIR FORCE SPECIALITY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT											
Aircraft Accessory Systems Supt	42399	CIV											1	1
Aircraft Electrical Systems Tech	42370	CIV	1	1	1	1	1	1	1	1	1	1	1	2
Aerospace Ground Equipment Tech	42375	CIV	2	3	3	3	4	4	4	5	6	6	6	6
Aerospace Ground Equipment Mech	42355	CIV			1	2	2	3	4	4	4	5	5	5
TOTAL			3	4	5	6	7	8	9	10	11	12	13	14
AIR FORCE SPECIALITY TITLE	AFSC	GRADE	MANPOWER REQUIREMENT											
Aircraft Accessory System Supt	42399	CIV	1	1	1	1	1	1						
Aircraft Electrical System Techn	42370	CIV	2	2	2	2	2	2						
Aerospace Ground Equipment Tech	42375	CIV	6	7	7	8	9	9						
Aerospace Ground Equipment Mech	42355	CIV	6	6	7	7	7	8						
TOTAL			15	16	17	18	19	20						